No. II.

Bengal during the year ending 31st March 1897.

4(2.0) (3.0)		2 (P)	xx	XII.	-civi	L WORK	cs.			CON	TRIBU	JTION.		DE	BT.		balance	balance,	of population.	baiance) per head of	
				1	IL OFFI	CERS.	1	olic Works		ocal.					receipts and		opening	opening	per head of p	(excluding ba	
Tolls on Ferries.	Bent of buildings and lands.	Sale of Nazul build-	Sale of buildings and other property (other than Nazul).	rate of stores and materials.	Miscellaneous.	Contributions.	Total.	In charge of Public Officers.	Total	From Provincial to Local.	From other Boards.	Total	Loaus.	Deposits and advances.	Provident Fund rece	Total.	Total income, excluding	Total income, including	Incidence of taxation p	Incidence of income (e	
57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	71(a)	72	78	74	75	76	
Rs.	Rs.		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	A. P.	Α, 1	,
9,986 1,390 1,429 19,351 5,844 6,630	410 			40 24	294 481 6 55	1,13,837 9,278 30,721 1,054 57,997 11,626	1,24,527 11,149 32,196 20,405 63,931 18,256		1,24,527 11,149 32,196 20,405 63,931 18,256	27,974 13,013 28,246 35,844 27,189 10,646	1,869 1,957	27,974 13,-13 28,246 35,844 29,058 12,603		17,444 5,742 3,145 17,840 14,934 3,×17	:	17,444 5,742 3,145 17,340 14,934 3,317		3,05,988 1,47,907 1,42,928 2,39,060 2,35,890 95,556	1 6 1 4 0 10 0 10 1 6 1 1	3 5 2 1 1 5 1 6 3 6 1 1	3
44,630	421			64	836	1,94,513	2,70,464		2,70,464	1,42,912	3,826	1,46,738		61,922		61,922	10,81,355	11,67,329	1 1	2 4	-
20,009 3,683 9,704 9,477 6,018	498		::	52	107 308 766	82,877 201 1,012 65,480	1,03,491 3,884 11,024 75,819 6,018	13.11	1,03,491 3,884 11,024 75,819 6,018	25,315 2,603 1,842 5,496 21,254	1,320 3,066	25,315 2,603 1,842 6,816 24,320		18,516 20,255 8,326 9,4:9 5,198	=======================================	18,516 20,255 8,326 9,409 5,198	1,43,172 1,07,638 2,10,544	2,46,150	1 1 0 8 6 10 0 8 0 11	1 1	
48,891	542			52	1,181	1,49,570	2,00,236		2,00,236	56,510	4,386	60,896		61,794		61,784	-		-	-	
12,258 3,595 25,130 49,062 1,581 8,954	14 300 339			:::::::::::::::::::::::::::::::::::::::	10 68 18	13,931 58,037 54,915 55,763 99,764 20,079			26,213 61,700 80,345 1,05,164 1,01,345 29,051	3,388 8,673 952 4,697 1,041 6,114		3,388 8,673 952 4,697 1,041 6,114		8,792 9,384 13,480 11,164 5,548 9,258		8,792 9,384 13,480 11,164 5,548 9,258	1,92,981 1,82,477 2,63,086 1,67,336	2,59,904 2,18,148 2,86,060 2,09,532	1 0 0 10 1 6 0 11 0 10	2 2 3	8 0 4 0 3
1,00,580	653	-	April Lange (N	=	96	3,02,489	4,03,818	=	4,03,818	24,865		24,865		57,626		57,626	a in man had		-		0
26,808 31,793 4,204 5,522	216 105 		31 30 	:::	141 10 231	41,778 50,860 15,484 34,713		1111	68,837 82,929 19,698 40,466	23,755 8,979 22,631 27,933	=	23,755 8,979 22,631 27,933	:	14,605 21,016 6,827 17,347		14,608 21,016 6,827 17,347	3,31,033 1,33,236	3,88,059 1,33,346	0 8	1	3623
68,327	321		61		386	1,42,835	2,11,930	-	2,11,930	83,298		83,298		59,795		59,795	-		0 9	-	20
7,834 12,081 14,828					· · ·	43,6 3 0 29,907 63,477	51,464 41,485 78,305	:::	51,464 41,988 78,305	27,428 12,438 15,285		27,428 12,438 15,285	€,000	:::	7,309 11,049 19,174	7,309 11,049 25,174	1,49,825	2,05,750	0 10 1 2 0 10	2 4	6
01,110	-	-				1,37,014	1,71,757	-	1,71,757	55,151		55,151	6,000		37,532	43,532	5,64,121	7,87,906	0 11	2 2	-
14,752 667 5,751 9,567 11,668 56,274 26,218	 600 72	111111	1,758	E11113	57 11 20 424	9,076 2,287 200 3,964 500	23,828 4,712 5,808 10,178 11,268 40,330 27,142	11	23,828 4,712 5,808 10,178 11,268 40,330 27,142	3,138 19,049 11,185 9,112 3,026 8,198 10,766	250	3,133 19,049 11,435 9,112 3,026 8,198 10,766		7,562 15,947 21,385 27,881 40,402 18,271 20,226		7 563 15,947 21,385 27,881 40 402 18,271 20,226	2,15,261 3,02,874 2,28,259 2,20,209 1,38,851 2,74,984 2,93,561	2,47,425 3,66,378 2,40,268 2,81,780 1,43,599 3,84,193 2,95,191	1 8 1 9 1 4 0 11 0 7 1 1 1 4	2 3 2 4 1 10 1 5 1 2 1 7 1 8	
-10-1201	672		1,768	*	512	16,027	1,23,266	-	1,23,266	64,460	250	64,719		1,51,674		1,51,674	16,73,990	19,58,834	1 2	1 9	
30,143 5,804 5,370 41,317	650	: : : :	:::::::::::::::::::::::::::::::::::::::	380	35	36,028 17,030 21,452 4,436	67,236 22,834 21,452 9,807	1111	67,236 22,834 21,452 9,807	4,650 5,267 4,454 3,460	=	4,650 5,267 4,464 3,460	50,060	31,565 43,346 14,390 16,631	::	81,565 43,345 14,320 16,-31	3,10,312 9,26,453 2,00,741 79,211	3,26,966 2,91,971 2,61,954 1,24,800	1 0 0 10 0 7	2 6 1 10 1 9 1 7	
	000		-	380	36	78,946	1,21,329	-	1,21,329	17,841	-	17,841	50,000	1,05,861		1,55,861	8,25,717	10,05,691	0 11	1 11	
8,776 7,733 2,590	454	1111	<u></u>	::	2,216	6,873 17,892 24,765	15,649 27,841 3,014	1115	15,649 27,841 3,044 46,534	31,364 19,498 18,004	<u>:</u>	31,364 19,498 18,004	::	664 2,810 5,634 9,108		664 2,810 5,634	1,22,250 91,668 62,041 2,75,959	1,67,937 1,12,900 78,008	0 6	1 4 1 6 1 1	
4,01,884 4,18,814	3,713		1,819	496	2,216 5,263 2,319	10,46,159	15,49,334 10,89,183		15,49,334	5,13,919 5,10,907	8,462 2,285	5,22,374 5,13,192	56,000	5,07,780	37,532 3,204	6,01,312 8,08,115	72,74,2325	3,58,845 86,79,666 85,03,168	0 11	1 10 1 9	

 F_{01} Statement showing the expenditure of the District Boards in $B_{e\eta\eta}$

			State of the state	1REFUNDS AND DRAWBACKS	15	.—POST		1 -	18.—ADMI		ION.	1 TO - 31		POLICI	6.
								G	ENERAL EST LOCAL	ABLISHME L FUNDS.	NTS OF	Ca	TTLE-PO	UND CE	IARGES.
See it here.	NAME OF DISTRICT BOAD	Closing balance of last year.	Total income during the year.	Local rate refunds.	District Post Establishments,	Mail Cart service.	Total.	Office establishment.	Office contingencies.	Payment of establishments for offices of Accounts, Control and Audit.	Total.	Establishments.	T	Refunds of cattle-pound col- lections.	
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	18
	Birbhum Bankura Midnapore Hooghly	Rs8,0 34,8 26,5, 1,3 23,7	31 1,15,046 16 1,16,412 39 2,40,399 2,12,099	Rs.	Rs.	Rs.	Rs.	Rs. 6,35 2,62 2,76 6,14 4,210 3,550	5 436 6 335 4 693 6 1,961	Rs. 2,091 1,246 2,461 1,551 811	4,301 3,881 9,300 7,728	Rs. 329 450 	157	Rs. 5	67
		85,97	10,81,355					25,65	6,061	8,94	40,661	1,002	-	93	1,900
1 2 3 4 5	Nadia Murshidabad Jessore Khulna	43,46 20,42 6,63 35,62 1,38,76	7 1,43,172 1,07,658 6 2,10,544 0 1,12,812		***			5,166 3,596 2,655 5,518 3,016	1,910 1,626 2,288 1,243	2,154 1,572 1,387 1,697 1,316 8,120	7,077 5,646 9,503 5,566	4.30 33 154	341 302	28 66 7	900 900 400 401 143
1 2 3	Dinajpur	48,70 66,92 35,67	1,92,981					3,083 2,631 2,631		1,602 1,733 1,327	5,189 5,241 4,639	666 70	88 126	80	834 202
6	Rangpur Begia	32,07 42,19 20,67	2,63,086 1,67,336 1,15,047		:		=	8,394 1,485 3,461 21,685	2,031 308 457 4,858	2,582 939 1,930 10,113	13,007 2,732 5,848 36,656	376	5 46 72 337		46 452 1,532
1 9 3 4	Dacca Mymensingh Backergunge	54,663 37,024	3,31,035 1,33,236 3,01,113		:			5,470 7,259 3,831 5,141	1,183 2,456 1,863 984	1,424 3,402 1,145 2,932	8,077 13,177 6,840 9,057	98 757 614 34	130 2,231 498 217	36	228 3,024 1,112 251
	CHITTAGONG DIVISION,					-		21,701	6,486	8,964	37,151	1,503	3,076	36	4,615
2 3	Noakhali Chittagong	55,925 74,534	1,93,508 1,49,825 2,20,788 5,64,121		•••			4,953 3,547 4,156 12,656	975 2,077	1,785 1,451 1,782 5,018	7,403 5,435 6,913	890 391 	495	158	1,543
3 2 3 4 5 6 7	Patna Division, Patna Gaya Shahabad Saran Champaran Muzanarpur Darbhanga	32,164 63,504 12,009 61,571 4,748 1,09,209 1,630	2,15,261 3,02,874 2,28,259 2,20,209 1,38,851 2,74,984 2,93,561					6,746 9,339 6,715 9,137 3,031 5,208 10,635	1,130 1,961 3,191 1,470 487 858 1,399	2,753 5,062 2,803 3,080 1,710 3,627 3,420	10,634 214,362 12,709 13,687 5,228 9,728 15,454	"416 1 	681 78 498 146 2	8 4 39	881 558 555 185 185 1,947
	Total BHAGALPUR DIVISION.	2,84,835	16,73,999		***		,	59,896	10,536	29,460	81,802	471	1,405	51	
3	Monghyr Bhagalpur Purnea, Malda	16,654 65,518 52,213 45,589	8,10,312 2,26,453 2,09,741 79,211		-		::	5,566 4,038 4,792 2,604	3,310 2,166 1,552 472	2,625 2,:11 2,238 803	11,501 8,415 8,582 3,879	81 66 653	45 116 237 104	 88	155 153 553 651
	Total ORISSA DIVISION,	1,79,974	8,25,717					17,000	7,500	7,877	89,377	700	502	00	
1 (Cuttack Balasore 'uri	45,657 21,232 15,967	1,22,250 91,668 62,041		::	3		4,123 2,518 2,252	1,390 729 444	1,113 712 582	6,626 3,959 3,278	588 756 34	277 98 162	6	871 858 196 1,921
201	GRAND TOTAL	82,886 14,05,434 17,32,181	2,75,959 72,74,232 67,70,987			•••	-	8,893 1,78,383 1,82,846	2,563 48,525 44,062	2,407 71,903 71,041	13,863 2,98,761 2,97,949	1,378 8,033 7,154	8,217 9,539	623 216	16,873

24.-MEDICAL

4100A

-	1	-			(April 1971)					-												
				MAI	NTEN	ANCE	AND r.				Statement of the last	1 10		ent.	Hospi Dispe	TALS AN	D	SANIT	ATION	AND ON.		IEDIC.
Grants to University.	Inspections.	Training and enonial	ils.	High schools.	Middle schools.	Primary schools.		Grants-in-aid		Scholarships.	Auscellaneous,	Kefunds.		General medical establishment.	oramary expenditure.	Pemale medical treatment.	Total.	Vaccination establishment and charges.	Sanitation charges.	Total,		Scholarships.
17	18	1	9	20	21	22	23	34	2.	20	1	27 28	2	1	1	1	T	31	T	33		6 (a) 3
35.	Rs. 10,69 5,26 6,05 13,32 8,28 2,78	35 39 38 35		156	Rs. 3,578 1,911 2,500 5,029 2,289 1,067	8,09 14,40 15,38	3,5° 8 10,00 2 16,90 5,00 3 17,6° 1,20	78 36,5 09 4,1 02 6,6 29 36,1 72 10,2 23 9,3	210 123 048 146 1290 636	343 177 1,0 345 2,1 131 1,8	18 051 34 669 53	Ls. Rs 51,6 20,5 31,5 57,6 37,6 15,6	044 925 988 903	2, 2, 1, 1, 2,	019 369 384 550	300 1	,019 ,369 ,684 ,550			Rs, 214 59 9	Rs.	Rs. I
-	46,31	6	-	156 1	6,374	37,88	3 54,41	1,02,1	53 4,1	82 5,9	38 .	2,13,0	002	12,	813 1,		010		872	940	-	
	12,867 7,681 4,047 7,669 6,558	5 7 8		1 1	,464 ,886 ,430 ,080	12,943	-	36 20,8 4,2 50 24,3 3 6,4	38 4 98 4 86 5 43 6	39 12,3 71 1,5	77 89 02 20	68 49,0 31,0 21,1 25 35,5 27,9 93 1,64,8	95 73 1,1 83	50 1,7 5,0 2,4	27	1,	692 774 465	50	96	146		140 1
														20,0	40 9	11,3	358	50	96	146		140 1
	4,746 9,189 3,260 8,408 3,194 5,847	4,87	1	e 2 2	664 497 991 865 987 349	5,661	964 3,497 991 7,737 8,648 3,185	7 14,96 7,83 32,78 2,60	3 36 2 33 4 84 3 62	18 2,18 10 73 14 1,16 18 9	9 8 21	30,16 13,18 4 50,99 2 15,38	08 6 3	7,5 1,5 1,0 3,6 8	14 4 90 1 2,3	80 1,9 80 1,9 11 2,8 14 3,6	70					355 S
-	84,644	7,70	8	11,	353	5,661	24,722	98,05	2 3,06	4 6,02	0 26	6 1,66,76	8 94	6 14,66	-		-	-	-	7.01		445 4
1	11,172 12,235 7,846 11,797			2,	528 890 974	814	5,796 1,890 6,914	29,777 32,033 24,363 23,033	1,78° 34° 71°	2,573 538 636		43,11 54,42 34,97 43,09	9	2 4,04 11,12 8,13 13,93	19	4,0 11,1: 8,1: 13,9:	26		-	: :	2	91 9 40 24
		7,205		0,	492	814	14,600	1,09,210	3,547	5,207	-	1,75,61	52	2 37,24	5	37,24	15	-	-		. 33	-
	8,818 7,201 7,010 3,029	2,700	=	2,0	23 1	5,153 4,617 6,438 6,208	28,777 16,632 19,161 64,570	4,654 4,397 5,648	797 542	116	:::	45,046 29,143 32,478 1,06,658	:::	7,94	1,74	9,69	4 72	-	-	20	27	9 278
-	7,245 7,061 5,460 6,594 3,378 7,169 5,437	313 424 487	***	3,3 2,0 1,8 3,3 1,8 1,1 1,8	71 11 1 79 81 15 1	5,711 1,966 7,613 3,910 7,406	19,395 2,071 14,201 18,379 9,981 15,025 19,208	18,011 689 12,226 469 1,093	1,157 1,285 511	3,481 683 4,160 1,095 3,407	2,528	29,422 31,444 24,718 27,644 15,434 27,419	2,856	6.78	510	6,76	608	99	8 8,55 7 2,57 3 48	99	276	6 276 1 71 0 10
4	2,344 1	L,224		15,4	30 6	8,606	83,260	32,488	6,270	15,195	2,564	1,82,121	LIDADICO	-	-	39,328	-	7,99	-	-	411	- ministers
6 8	,452	2,864	1,300	2,58 1,7 2,0	02 18 14 16 21	,504 5,040 3,667	22,578 17,632 21,245 2,021	1,140 1,213 1,229 12,589	425 403	830 99	::	31,450 26,833 29,378 18,945	:::	14,010 4,515 2,058 2,916		14,010 4,515 2,058 3,588	-	12 820 	12 820 	:::	300	800
	, 200	2,864	1,300	10,10	01 46	,211	63,476	16,171	2,169	1,340		1,06,606		23,499	672	24,171	=	832	832	=	800	300
4	,958 ,929 ,120	::	::	2,1: 7(2,1:	78	447	2,602 707 2,173	24,605 18,047 9,683	489 902	1,053	===	41,395 27,462 17,931		2,485 2,659 2,920		2,485 2,659 2,920	1,181	:::	612 1,181	257	100	257
2,73,	010 2		1,456	200000	7 2,2		5,482 3,29,326 3,73,220	52,335 5,13,672 5,07,373	26,962	55,807	-	86,788 12,02,450 12,26,642	-	8,064 1,71,959 1,50,741		1,82,438 1,57,305	3,071	9,477	-	257	-	357 2,263 1,494

4,-	MED:	IOAL-	concld.	984	26.—8	CIEN'	TIFIC A	ND OTI	HER M	NOR DI	EPART	MEN	TS.	ANNUA ALLOWA ANI PENSIC	NCES	30-	-STAT	TIONI RINTI	RY NG.	ANI
1					Pubi	ic Exi	HIBITION	S AND			public			Pund .		in the				T
Lunatic Asylum,	Refunds.	Miscellaneous.	Total.	Experimental cultivation.	Horse fairs.	Cattle fairs.	Other exhibitions or fairs.	Total.	Veterinary charges.	Bull and stallion charges.	Botunical and other Gardens.	Provincial statistics.	Total.	Pensions and Provident contributions.	Gratuities.	Stationery purchased country.	Other stationery.	Printing.	Lithography.	
35	36	36(a)	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	
Rs.	Rs	Rs.	Rs. 2,019 2,369 1,898 1,609 4,150 2,640	Rs.	Rs.	Rs.	Rs. 285	Rs. 385	Rs.	Rs.	Rs.	Rs.	Rs. 385	Rs. 727 664 196	Rs.	Rs. 493 300 330 443 1,139 256	Rs.	Rs. 924 222 378 703 472	Rs.	1. 1.
=			14,685	-	_	100	285	385	•••			-	385	1,587		2,955		2,699	55	5,
1111			1,832 1,774 1,150 5,465 2,573				2,687	2,687	=======================================	 54		=	2,687 54 2,741	139 390 360 	::	409 657 421 962 554 3,093		681 946 880 327 2,824	***	1,1 5 1,3 1,8 6 5,20
-	_			_	_															OR SHOW STATE
: : : : : : : : : : : : : : : : : : :	=======================================		8,098 1,994 1,270 2,311 3,669 1,875		=======================================		=======================================	:		233			233 233	120 600 		457 350 649 1,169 97 266 2,988		607 429 1,710 1,487 380 712 5,331		1,06 7: 2,53 2,63 46 97 8,51
	=======================================	1111	4,563 11,217 8,379 13,939 38,098	***		=	750 494 1,244	750 494 1,244	=	=		=======================================	750 494 1,244		28 28	495 575 809 547 2,426		492 1,720 456 291 2,964	ž1 ::: 21	95 5,41 1,95 5,41
:::		=	12 581 9,694 10,183	: : :	=	#		:	::	:	:::	:	::	 43	Ξ	815 489 779	26	399 778 289	 19	1100
		-	32,458	=										43		1,583	25	1,466	19	1,0
1111111	1111111	8,298	16,841 13,663 6,866 8,198 4,911 5,743 3,772	=		320 	68 1,184 3,779 200	68 1,184 4,069 200	=	270 100			36 68 1,454 4,059 	567 282 384 74	750	967 364 825 1,612	1,401	1,254 1,371 1,79 3,826 0:4	54	2.60日 2.50日
=	***	8,298	59,494	=	-	320	5,231	5,551		406			5,957	1,307	1,750	5,785	1,876	9,911	-	-
	91111	1111	14,322 5,335 2,058 3,588 25,308	=	1111	::	=	=	=	=	=	::	=======================================	105	:: ::	325 329 525 295	=	\$80 ;80 817 486 2,943	30	田田田の一年一
1111	1111		3,097 2,916 4,101		1111	=======================================	=======================================		:	=			::			260 301 129 690	=	669 814 436 1,919	-:-	四月四十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十
:: ::		8,298	2,12,163	-	110	420	9,447	9,867	•••	693			10,560	4,651	1,778	and the second	Special and Park Printers	28,773	340	3/3

	gna	THE T	82.—M	ISCEL	LANEC		18 - Je 10 7 7 8 10 10 12 10 12 7	33,	-FAMIN	E RELI	EF. R	8.— AIL- AYS.	41.— RAIL- WAYS.	MINOI WORK & NAV	R R	S.— NIL- NYS.	15.—C	IVIL	WORKS.
DULLDORSE	ruction of	Bud had	TY ES	TAB- NT.	umoreseen		utions.			1000	Ì		expendi-	MOSTERS:		-	40.00	RGE	of Civil
Donations for charitable purpo	Rewards for the destruction	Staging bungalows a serai establishment o	charges.	ā l	27.28(3)(5)(4)	Miscellaneous refunds.	Provident Fund contributions.	Charitable relief.	Public works.	Miscellaneous.	Working ornogen	Sagnada a	Miscellaneous Railway ture,	Local canal charges.	Capital armenditum	Ferry establishment and		Refunds.	Total.
53	56	57	1	18 5	9 6	30 60	(a) 6	62	63	64	65	1	66	67	68	1	9	70	
Rs.	Rs.	1,27	85	2.	364 12 1 109 580 2 153	50 5 48 1 60 2 2	45 1,1 36 3 10 2,6	112 135 108 185 189 24	Rs,	Rs.	Rs		Rs.	Rs	Rs		17 344 263 618	Rs	17 344 5,263 618
	3	1,70		. 3,	384 4	58 1,4	7,2	53		-			AV.	Standarden Sage Standarden Vista		_	242		6,242
		23 80 19 1,23	8	18	27 2	89 1	74 4 97 79 1,2 26 1,5	43	1,18	97	. :			Z E		=			1,002 270 600
150		721 756 350 95		4,0 5 1,3 2	22 67 2 43 5	5 15 0	01 30 31 4,89 24 1,29 96 1,58	00 06 08		9 1,337				:			10		10 771
i								100	4,26	1,451	-	-		***	 		781	-	781
\$51 101 101		694		4/7: 5: 1,7:	17 1	-	3 1,25 9 99 7 1,57	186			=======================================			=		5,1 16,8 6,9 28,6	597	:: ::,	5,117 16,597 6,951 28,665
	 1	72 4,843 4,915		97 53 5,94 7,45	9 500	650	11,24			701				1,233 2,589 49 3,871		1	4	Ē	395 14
22 17 08	1 431 432	2,001 1,102 290 701 842 1,282 483 6,701	2,709	23	95 0 86 8 419 174 0		5,964 1,427 1,046 3,318 1,016 4,808 1,197	67 178 3,075	1,267	576 5,826 13,808 847 						63 89 63 1,926	88377	430	638 1,328 637 1,920 4,518
		72 217 289		720 21 21 210	93	210	288 664 355	4,155	39,763 39,763	s s		::		 978		2,345		1,600	3,945
		1,837 125 			62 25 87	134 100 176 410	2,033 225 201 2,459	259 259	3,281 3,802	12	::			= -		116			116
	100	19,425	3,031	27,951 32,972	2,780 1,873	7,331	62,607 71,354	13,082	2,49,830	24,078				4,849		44,518	2000	030	46,548

45.-CIVIL WORKS-coneld.

				164	IN CHAR	GE OF PU	BLIC WORKS		5.			3.	
	Origina	l Works.			Rep	airs.		contin-		water-			
Civil buildings,	Communications.	Miscellaneous public improvements.	Total.	Orvil buildings.	Communications.	Miscellaneous public improvements.	Total.	Establishment and congenies apperlaining public works.	Tools and plant,	Water-supply and works.	Drainage works.	Total,	Total.
72	78	. 74	75	76	77	78	79	80	81	82	83	84	85
Rs. 11,203 8,271 1,238 6,722	5,875 9,363 18,336	Rs. 7,484 5,281	14,146 10,601 18,326	Rs. 6,848 2,962 9,679 9,089 93	41,883	Rs. 1,397 206 3,494	Rs. 1,32,439 44,845 41,392 68,416 94,156 25,764	Re. 17,350 7,485 9,749 19,199 13,833 6,540	Rs. 163 44 30 1,241 193 73	Rs. 1,363 1,781 2,315	Rs.	Rs. 1,82,101 67,883 63,553 1,09,497 1,22,930 37,461	Rs. 1,82,10 67,36 63,87 1,14,76 1,23,54 57,46
27,434	54,855	12,765	95,054	28,671	3,73,244	5,097	4,07,012	74,156	1,744	5,459	•••	5,88,425	5,89,667
 8,139	8,658 13,744 2,426 14,076 12,604	8,040 550 	8,658 16,784 2,976 22,215 12,604	235 8,188 582	32,550 33,926 58,545 27,654		1,40,010 32,626 34,265 66,799 28,236	24,021 15,657 14,171 23,514 10,347	299 146 122 290 282	8,334 2,721 2,305 2,469	1,780 241 1,509	1,83,052 65,113 54,496 1,16,632 53,938	1,84,064 65,118 54,460 1,18,902 54,538
8,139	51,508	3,590	63,237	9,005	2,92,450	481	3,01,936	87,610	1,139	15,829	3,480	4,73,231	4,75,163
9,114 7,250 23,934 14,798 4,884 1,610	5,830 21,621 11,851 26,109 11,528 8,572	1,051 183 3,499	14,944 29,922 35,285 40,907 16,595 18,581	6,841 7,938 5,013 2,599 2,457 4,952	37,327 45,993 38,038 34,275 20,718 19,632		44,168 53,931 43,051 36,874 23,175 25,870	14,098 17,002 14,410 21,855 7,985 9,728	497 759 318 789 171 282	2,927 1,818 2,155 2,980 2,404	380 947 2,355	77,014 1,04,979 95,219 1,05,760 50,330 49,461	77,024 1,04,379 95,990 1,05,790 49,930 49,401
61,490	85,011	4,733	1,51,234	29,800	1,95,983	1,286	2,27,069	85,078	2,816	12,284	3,682	4,82,163	4,82,944
11,423 16,401 4,209 47,106	20,935 61,663 13,547 69,815	:: 'ï	32,358 78,064 17,756 1,07,922	20,251 12,109 6,168 3,558	33,059 47,661 14,709 46,271	508 67	53,818 59,770 20,877 49,896	13,665 22,379 9,688 18,539	619 1,730 54 454	5,185 17,368 7,855 7,320	::	1,05,645 1,79,311 56,230 1,84,131	1,10,762 1,95,965 56,230 1,91,082
79,139	1,56,960	1	2,36,100	42,086	1,41,700	575	1,84,361	64,271	2,857	37,728	**	5,25,317	5.53,968
15,926 10,913 49,821	9,090 19,912 3,212	=	25,016 30,825 53,033	1,995 4,621 16,063	38,280 33,929 40,674	T	40,275 38,550 61,737	14,300 14,461 24,262	920 67 792	1,265 2,042 665	4,412 1,170	86,188 87,115 1,40,489	\$6,188 87,516 1,40,503
76,660	32,214		1,08,874	22,679	1,17,883		1,40,562	53,023	1,779	3,972	5,582	3,13,792	3,19,40
1,650 18,670 2,048 826 	11,431 56,265 30,385 91,477 22,451 1,28,766 54,337	2,412 4,596 4,482	13,081 77,347 30,385 28,121 23,277 1,33,248 54,337	2,488 1,461 96 799 160 367	70,681 65,477 85,630 34,938 11,637 53,404 31,789	1,796 4,678 983	73,169 68,734 58,726 40,415 11,797 54,754 31,789	21,491 40,412 26,951 32,490 18,180 22,218 30,363	222 2,202 553 372 993 337 1,087	7,850 1,763		1,07,963 1,88,695 1,23,965 1,01,398 56,010 2,10,557 1,18,887	1,07,68 1,89,53 1,95,98 1,02,08 56,63 2,10,58 1,93,57
23,194	3,25,112	11,490	3,59,796	5,371	3,26,556	7,457	3,59,384	1,92,105	5,766	9,924		9,06,975	9,11,48
28,583 7,724 7,865 5,577	58,859 46,694 11,835 3,330	2,486 1,220 116	89,928 55,638 19,70 0 9,623	7,694 8,763 7,330 2,707	85,619 60,950 77,457 20,732	1,258 288	88,313 76,971 85,075 23,439	23,747 28,501 23,412 7,004	2,019 1,559 269 289	10,086 414 1,657 1,513	Ξ,	2,14,092 1,68,173 1,30,113 41,358	2,18,087 1,68,173 1,89,113 41,35
49,749	1,20,718	3,822	1,74,289	28,494	2,45,758	1,546	2,73,798	82,844	4,185	13,670		5,48,736	5,52,61
87 999 	4,350 28,718 169	608 2,135	5,045 31,852 169	300 815 6,280	39,522 15,834 14,879	200 327	40,022 16,649 20,986	14,433 5,370 8,083	204 '''110	47 	::	59,751 53,871 29,348	59,85 53,87 29,38 1,48,68
1,086	8,59,615	2,743	37,066 12,25,650	7,395	69,735	527	77,657	27,886	314	47	12,744	39,76,609	40,25,15
,70,671	11,15,414	23,183	14,09,268	1,71,501	21,15,027	16,969	19,51,779	6,66,978	20,550	98,913	5,198	44,26,199	44,71,88

No. III. uring the year ending 31st March 1897.

co	NTRIBI	TIONS.			DEBT		500 - 500 1	INT	EREST O	N DEBT.	1		BALANCI	ı.	
To Provincial,	To other Boards.	Total,	Payment of loans.	Deposits and advances.	Provident Fund withdrawals,	Savings Bank investments depo-	Total,	On account of last year,	On account of current year.	Total,	Total expenditure.	Deposits.	Actual balance.	Total.	
6	87	88	89	90	90(a)	90(8)	91	92	93	94	95	96	97	98	1
.s.	Rs	1,957	-	Rs. 20,877 6,776 6,341 21,021 16,893 5,458		Re	Rs. 20,877 6,776 6,341 21,021 16,893 5,458	Rs,	Rs.	Rs.	Rs. 2,70,593 1,06,014 1.08,942 2,06,634 1,92,806 71,097	Rs. 14,61 5,02 97 10,54 2,40 1,30	5 36,86 9 33,00 5 21,88 6 40,67	38 41,893 97 33,986 1 32,426 8 43,084	
	3,86	3,869	*	77,866			77,366		-		9,56,086	34,87	7 1,76,36		-
,000 J271	1,319 3,066	5,319 26,337	1,62 3,500	3 11,332 15,801 6,992			24,284 29,421 14,835 15,801 6,992	=	882 636 	882 636		16,066 3,453 1,933 1,723	15,24 4,76 51,74	7 15,247 8,221 53,679	
,271	5,045	32,316	5,12	86,206			91,333		1,518	1,518	8,48,359	28,166	1,14,743	1,37,911	
物质性	471		10,225 2,128	16,336 23,823 4,835 8,574		:	15,360 26,165 18,461 23,823 4,835 8,574		8,358 8,353 	8,398 353	1,41,156 1,77,747 1,41,114 1,99,974 79,666 98,726	184 5,355 239 3,687 5,888	76,809 77,034 93,847 1,26,179	96,086 1,29,866	
	471	471	12,850	84,868			97,218	•••	8,751	8,751	8,38,383	15,353			
				13,602 36,328 7,656 12,139 69,725		=======================================	13,602 36,328 7,656 12,139 69,725		:: ::		1,89,205 3,18,179 1,17,638 2,71,972 8,89,994	1,608 29,357 4,117 17,328 52,405	52,653 20,523 11,591 82,106	54,261 49,880 15,708 99,429 2,19,278	
		===		8,067 12,734 42,518 63,319			8,067 12,734 42,518 63,319		9,848	3,948	1,64,621 1,56,037 2,49,060	\$,693 7,028 9,798	1,18,500 48,685 36,484	1,22,193 65,713 46,282	
000 165 000 156		13,000 15,455 42,000 303	7,911 5,066 6,108 8,316	17,712 16,872 24,431 83,739 31,391 28,531 29,628			25,623 16,872 24,431 88,805 31,391 34,639 37,944	178	0,048	178	5,63,718 2,04,722 2,70,756 2,30,237 2,76,670 1,40,872 3,41,447 3,62,188	20,519 1,836 15,276 954 9,019 6,280 270 17,119	2,08,669 40,867 80,346 9,077 -3,909 -3,553 42,476 -84,116	2,24,188 43,703 95,622 10,031 5,110 2,727 42,746 —66,997	
	-	70,758	27,401	2,32,304			2,59,705	178		178	18,26,892	50,754	81,188	1,81,942	
18 18 17 13 14 14 14 14 14 14 14 14 14 14 14 14 14		618 918 307 	:	24,544 55,947 21,239 22,057		=	24,544 55,947 21,239 22,057	=	1,123	1,125	3,04,368 3,06,248 1,94,038 92,598 8,97,247	26,320 7,127 7,015 40,462	- \$,722 -21,399 67,916 25,187	22,598 -14,272 67,916 32,202	
		4		14					1,120	1,120	0,71,231	30,303	07,000	1,08,444	
	9,378 1,685	1,09,247	44,878	975 3,472 3,915 8,362 7,45,937			975 3,472 3,915 8,362 7,90,615	178	15,242	15,420	1,16,085 93,874 62,816 2,72,77 5 70,93,454	3,855 2,692 2,760 9,307 2,46,845	47,997 16,334 12,432 76,763	51,852 19,026 15,192 86,070 15,86,212	

FORM

Statement showing the details of the works undertaken for the improvement of

			I	MPROVEMENT O	F WATER-SUPPL	Y.				IMPRO	VEMENT O
	New	tanks dug.	New wo	ells sunk.	Existing source repaired or ot improv	herwise	Watch employ guard so of drin water-su	red to ources iking		Village site improvise., laying out st drains, &c	rements,
DISTRICT BOARD.	Number of works.	Cost.	Number of works,	Obert.	Number and description of works.	Cost.	Sources and number of men employed.	Cost.	Total expenditure.	Number of villages.	Cost.
1	2	3	4		6	7	8	9	10	11	12
BURDWAN DIVISION. Burdwan	1	Rs. A. P. 2,452 0 0	18	Rs. A. P. 5,075 0 0	Re-excavation of four tanks and clearing wells.	Rs. A. P. 1,354 0 0		_	Rs. A. P. 8,881 0 0	_	_
Birbhum			14	1,218 0 0	Deepening four wells and re- excavation of a tank.	145 0 0		-	1,363 0 0		
Bankura			and numer- ous tempor- ary wells.	1,508 0 0 212 0 0 1,720 0 0	Clearing silts from 14 wells.	61 0 0			1,781 0 0	****	
Midnapore	*	1	85	1,044 0 0	7 tanks re- excavated. 3 tanks im- proved. 43 wells clean- sed.	1,133 0 0 31 0 0 107 0 0	-	*****	2,315 0 0	•	-
Hooghly		••••• •••••	18	5,281 0 0	4 tanks re- excavated.	1,271 0 0 206 0 0		·	5,487 0 0		
Howrah	1	738 0 0	7 tube wells, 16 big wells and 3 pits in Kanana- di.	2,389 0 0	3 tanks re- excavated.	367 0 0		-	3,494 0 0		
TOTAL	2	3,190 0 0	175	16,727 0 0	-	3,404 0 0	·	*****	23,321 0 0		
PRESI- DENCY DIVISION. 24-Pargann	2000	1,838 0 0	Tube-wells 2 Ring-wells 26	144 0 0 1,105 0 0			A COLUMN		8,334 0 0		
		4.4	28	1,249 0 0							
Nadio Murshida- bad.	*:	-	23 40	3,040 0 0 1,981 0 0	Re-excavating four tanks. Clearing two tanks. Repairing five wells.	22 0 0			3,116 0 0 2,721 0 0		
Jessore		1,295 0 0	181	453 0 (1 Deepening tank at Bangaon Cutcherry. 1 Deepening tank at Keshubpur. 1 Railing tank at Jhenida.	104 0	0	*	2,305 0		0
Khulna	. 2	2,349 0 0			2	557 0 120 0			2,469 0	0	
m-4-3	5				0 19	8,740 0	0	· · · · · ·	18,945 0	0	1 .

No. 1V.

Sanitation in the Bengal, during the year ending 31st March 1897.

a de lucio		ORT AND	OTHER OBJECTS OF TO PROMOTE THE HEALTH, COMPONIENCE OF POPULATION	FAIRS	SANITARY AR MENTS AT AND FESTI	owns	NCY OF T	NSERVA AND	Co		ITES, &C., OF RANK	LLAGE S MOVAL ATION.
V						ablish-	enging est ments.	Scave	erved.		of prickly d rank ation.	emoval pear ar veget
Remarks.	Grand Total.	Cost.	Particulars.	Cost.	Names of places conserved.	Arrangements made for the supervision of these establishments.	Cost.	Number of men and of carts.	Names of towns and villages conserved.	Total expenditure.	Cost.	Number of villages.
25	24	23	22	21 *	20	. 19	18	17	16	15	14	13
gr *10	Rs. A. P. 8,881 0 0	Rs. A. P.		Rs. A. P.						Rs. A. P.	Rs. A. P.	*
	1,781 0	133 0 0	Pay and travelling allow- ance of Civil Hospital Assistant on cholera duty and price of medicine.	285 0 0 1	Joydeb Ken- duli and Buckreswar.							
909	1,995 0 0	214 0 0	Civil Hospital Assistant on cholera duty with medi- cines, &c.									
	2,374 0 0	8 0 0	Supply of pure water to Contai town.	51 0 0	Hatnagor fair and Mohadeb méla.		***					
				401								
	5,639 0 0	151 0 0	Treatment of cholera cases in the Sadar and in the Jahanabad	*****								
	3,584 0 0	90 0 0	subdivision. Drainage and jungle cutting.									
	24,253 0 0	596 0 0		336 0 0	,				-		-	
	12,751 0	854 0 0	Improvement	2,582 0 0	Gavgas a g a r Fair.							
	0.174 0.0	876 0 0 1,730 0 0	-	105 0 0 2,687 0 0	Haron Fair							
	8,116 0 0 4,345 0 0	351 0 0 384 0 0 889 0 0	Repairing northern drainage cut. Repairing southern drainage cut. Building and repairing two pairs of mar-				::					
	3,880 0 0	1,624 0 0	Contributi o n for re-excava- tion of Bhow- anipur khal.			-	-	···	0	0 68 0 (
				10	3. G. 17 % S							
	2,469 0 0 26,561 0 0	4,863 0 0		2,6.7 0 0								-

					Improv	VEMENT OF WATI	ER-SUPPLY.				IMP	ROVEMENT OF INCLUDING VEGE
		New	tanks dug.	Nes	w wells sunk.	Existing sources repaired or o improv	s of supply otherwise ved.	Wate emplo guard e	chmen byed to sources inking supply.		Village site imp i.e., laying ou drains,	rovements, it streets, &c.
DISTRICT BOAR	D.	Number of works.	Cost,	Number of works.	Oost.	Number and description of works.	Cost.	Sources and number of men employed.	Cost.	Total expenditure.	Number of villages.	Cost.
1	1	2	3	4	5	6	7	8	9	10	11	11 4
RAJSHAHI, DIV			Rs.	Ti	Rs. A. P.		Rs.		Rs.	Rs. A. P.		Rs.
BION.		1	500	16	2,013 0 0	8	2,199			4,712 0 0		
Trajanani	"											
distance.												*
Dinajpur				7	1,757 0 0	2 Pucka wells	61			1,818 0 0		
Dinajour III												
	1											
Jalpaiguri			••••								*****	*****
Rangpur				18	1,628 0 0	32	1,348	1	4	2,980 0 0		
	-											
Bogra			*****	8	2,404 0 0					2,404 0 0		
				32	4,399 0 0					4,399 0 0	388 187	
Total		1	500	81	12,201 0 0	42	3,608	1	4	16,313 0 0		
	İ	*										
BACCA DIVISION	s.										1 (12)	
Darca		2	691	2 pucca	3,900 0 0	4 tanks Repair of tube	350. 244	••••		5,185 0 0		
				wells 30 tube	Silver or septid	wells.	594					
	1			wells and sink-								
				tube wells.								
	1								at a			
Mymensingh	-	20	5,277	69	6,687 0 0	34 tanks	6,404	•	•	18,368 0 0		
	1				*							
	1					e element i de la companya de la com						
Faridpur	1	16	4,718	1	16 0 0	15 tanks	3,121			7,855 0 0		
		14	7,070		••••	7 tanks	250			7,320 0 0		
Total		52	17,756	-	10,603 0 0	60	10,369	•••••	•	38,728 0 0		1

VILL REMO TATI	AGE SITES, &C., OVAL OF RANK ON.		Con	SERVANC	Y OF TOWN	NS AND	SANITARY ARE AT PAIRS FESTIVA	AND	OTHER OBJ CULATED TO THE SAFETY COMFORT AND CO OF RURAL PO	PROMOTE , HEALTH, ONVENIENCE		
Rem	noval of prickly ear and rank yegetation.		served.	Scaven	ging establi	shments.	No. of Charles of Co.	Part 3		- /A e ()		
Number of villages.	Cost.	Total expenditure.	Names of towns and villages conserved.	Number of men and of carts,	Cost.	Arrangements made for the supervision of these establishments.	Names of places conserved,	Cost.	Particulars.	Cost.	GRAND TOTAL.	REMARKS
13	14	15	16	17	18	19	20	21	22	23	24	25
	Rs. A. P.	Rs. A. P.			Re,		rt.	Rs. A. P.		Rs. A. P.	Rs. A. P.	137,485
*****					 / ,		Khetur and Premtali, Manda	170 0 0 11 0 0 181 0 0	A chintala drain. Patia drain Sivpur drain Kanchan Pro- sadpur drain.	76 0 0 107 0 0 57 0 0		4500
ir.									Betaratola Total	380 0 0	5,273 0 0	, after
									Removal of drainage ob- struction. Repairs to Di- najpur drain- age canal.	618 0 0 329 0 0		(#)e
									Total	947 0 0	2,765 0 0	
****	.											er et alle
••••									Rangpur drain- age works. Drain cut at Kurigram. Drain cut at Nilphamari.	2,265 0 0 37 0 0 14 0 0	o s	
									Total	2,316 0 0	5,296 0 0	
****		******	*****		******			*****	••••	*****	2,404 0 0	* **
****								*****	••••	*****	4,399 0 0	-
****								181 0 0		3,643 0 0	20,137 0 0	
							18/					
••••	-			****			Kartic Baroni Fair. Nangalbund Fair.	708 6 0 42 0 0			5,935	erria/
							Total	750 0 0				9
							1. Bagunbari Fair. 2. Sambhu- ganj Fair. 3. Porabari Fair.	18 10 466			18,862	pg:
							Total	494				
••••	-										7,855	-
			j								7,320	100
			34									egic .
								1,244			39,972	

				IMPR	OVEMENT OF WA	TER-SUPPLY	r.	157 (2.5184)		IMPRO	OVEMENT OF INCLUDING VEGE
	Nev	w tanks dug.	Ner	w wells sunk.	Existing sources repaired or other improve	s of supply herwise	Watel employ guard s of drin water-s	hmen yed to sources aking- supply.	190	Village site improv i.e., laying out si drains, &c.	ements, treets,
PISTRICT BOARD.	Number of works,	Cost.	Number of works.	Cost.	Number and description of works.	Cost.	Sources and number of men employed.	Cost.	Total expenditure.	Number of villages.	Cost.
1	2	3	4	5	6	7	8	9	10	11	12
CHITTAGONG DIVISION. Tippera .,		Rs.		Rs {	One Pasteur filter. Five tubewells. Five tanks	Rs. 803 288	}		Rs.	17	Rs. A. P.
Nonkhali	3	1,375	1	49	Three tanks cleared. Sign boards put to several reserved tanks. Re-excavation of two tanks.	109 94 415	}		2,042		
Chittagong				{	One tank cleared. Iron wire fencing round a reserved tank.	7 658	}		663		
Total	3	1,875	1	40	19	2,548			8,972	17	4,412 0 0
Patna Division. Patna	•••		4	605	14	304			999		
Gaya			9	2,123	148 wells repaired and buckets and lothas supplied.	1,350			8,473	Clearing and constructing drains and filling up gaps in Nawada, Jahanabad and Aurangabad.	1,928
Shahabad	1	195	5	1,568	40 wells cleansed and repaired.	1,370			8,133		
Seran			1	171	175 wells	9,100			9,271		
Champaran			1	375	19 wells	1,388			1,763	2 Pucks drains were constructed on both sides of road Mothari to Segov lie, in the villages of Singia and Banjaria,	1,039
Muzaffarpur	-				208 and more wells and two tanks.	4,893			4,893		,
aronang .			1	582	113	229			811	1	371
Total	1	195	21	5,424	893	18,724			24,343	3	8,338

	VILLAGE SI REMOVAL O TATION.	ITES, &C., OF RANK	1		CONSER	VANCY O	OF TOWN	18		ARY ARRAN TS AT FAIRS FESTIVALS.	HEALTE	BJECTS CALCUI OTE THE SAFI I, COMFORT, A HENCE OF RUI PULATION.	TY,	
	Removal and rank	of prickly pear k vegetation,			Pears Seas	enging	establish	四段进行物						
	Number of villages.	Cont.	Total expenditure,		Names of towns and villages conserved.	or men and of carts,	A Caldingly	supervision of these establishments,	Names of places conserved.	Oost.	Particulars.	Cost.		Tigod Directo
-	13	14	15	1	6 17	1	18	19	20	21	22	23	2	
			Rs, A. 4,41							***	-	Rs. A.		577
	Access and				•						Putting drapipes on ros surveying drain. Clearing bo passages.	at 977 0 0	3,2	19
									••••		Total	1,170 0 0		35
			4,419				- 1					1,170 0 0	9,50	4
		*						- Po			Medical aid t the poo during th outbreak an other conta gious dis eases.	e dif	2,04	•
	*****		1,928		11 men and carts	. 83	30	and	earing the sites of Deckund I Rafiganj fairs.	68	Disinfecting wells, prices of medicines, and pay and travelling allowance of Sanitary Juspectors.	1,731	8,039	
												1,382	4,515	radio e il ,
				 Je	1 sweeper	4	8	(1) 8 (2) 8 (3) 1 (4) 7	Sonephy Silhourf, Mehnar, Chaway, Kochaj-	3,779	Miscellaneous	385	13,483	
	7.7.00		1,039	•••••	*****				kote.		1948		2,802	
Contract of the second of the					••••	*							4,803	10172
		*****	371										1,182	
••			8,338		12 men and carts.	887			7	3,847		4,543	86,958	

	7,000		動物が大力し	Improv	EMENT OF WATER	-SUPPLY.				IMPR	OVEMENT (INCLUDIT VE
Property of the control of the contr	New	tanks dug.	New	wells sunk.	Existing sources repaired or of improved	of supply therwise	Watel employ guard a of dri water-s	yed to sources nking	A CONTRACTOR	Village site impr i.e., laying out drains, d	ovements, streets,
DISTRICT BOARD.	Number of works.	Cost.	Number of works.	Coet,	Number and description of works.	Cost.	Sources and number of men employed.	Cost.	Total expenditure.	Number of villague.	Cost.
1	2	. 3	4	5	6	7	8	9	10	11	12
BHAGALPUR DIVISION. Monghyr	1_	Rs.	17	Rs 4,537	Tanks 2 Wells 74	Rs. 476 3,526 4,002	}		Rs. 10,086	*****	
Bhagalpur	Fam.	1,930	Tube- wells, 8 Tube well Ordi- nary	67 99	Ordinary wells 10 Tube-wells 12	52 159					
	1	1,497 2,181	well	196	Famine. Tanks 3 Tank 1 Do 1	9 220 276 797 681 1,461			11,218		
	-	7,587	Force		100 1	3,215	j				
Purnes			pumps 2	279	Masonry wells 40	1,378			1,657		
alda	3.649 				Tanks 4 Wells 14	1,513			1,513		ground
Total	В	9,134	29	5,012	162	10,386			24,474		
Orissa Division. Cuttack Balasore	-		1	40	1	7			47		
Puri	1	500	7	285	Repairing and clearing 34 wells between Satpara and Puri.	340	****		1,125	The state of the s	
Total	1	500	8	325		347			1,172		H 914
GRAND TOTAL	-	38,132	689	57,064	1,383	56,068	1	4	1,51,268	19	7,814

		TS CALCULATED THE SAFETY, OMFORT, AND CE OF RURAL LATION.	HEALTH, CO	AIRS AND	SANITARY MENTS AT FESTI	WNS	NCY OF TO VILLAGES.	ONSERVA	C		E SITES, &C., AL OF RANK	VILLAGE BEMOV TATION
		1	And the same			ishments.	ging establ	Scaven	onserved.		al of prickly and rank etation.	Remov pear ve
REMAR	GRAND TOTAL.	Cost,	Particulars.	Cost.	Names of places conserved.	Arrangements made for the supervision of these estab-	Cost.	Number of men and of carts.	Names of towns and villages conserved.	Total expenditure.	Coet,	Number of villages.
25	24	28	22	21	20	19	. 18	17	16	15	14	13
	Rs.	Rs.			Part Control			165				
,	10,086	(6 (6)			The state of the s		*****					
4-49	THE STATE OF THE S							and the second of the second o				
	12,038	820	Civil Hospital Assistant and medicines for cholera duty.				And	96 7.17 27- kg		•		
	1,657											
	2,491	263	Clearing snags from the rivers. Subsidy paid to steamer services.	- 3 100	••••			-				
		978			Professional Profession		-					_
	26,272	1,798				•••				.,		
	47							••••				-
	2,306	1,181	Free vaccination.							*****		-
	2,353	1,181										-
	1,86,060	-		8,295	·		887	b		7,816	2	

APPENDIX A.

Statement showing the number, income, and expenditure of Pounds under each District Board in Bengal during the year 1896-97.

A ALANA SALAN	N	POUN			INCOME		Exp	ENDITU	RE.		SURPLU		t March		
DISTRICT.	Farmed.	Managed direct.	Total.	Parmed,	Managed direct.	Total.	Parmed.	Managed direct.	Total.	Farmed.	Managed direct.	Total.	Balance due on 31st 1897.	e escaphase.	REMARKS,
1	2	3	4	5	6	7	8	9	10	11	12	13	14		-15
BURDWAN DIVISION.		1		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	_20	
Burdwan Birbhum Bankura Midnapore Hooghly Howrah	28 141 78		189 76 28 141 78 47	10,519 7,657 1,406 7,813 7,707 3,303		10,519 7,657 1,406 7,813 7,707 3,303			606 637 21 555 49 41	9,913 7,020 1,385 7,258 7,658 3,262		9,913 7,020* 1,385 7,258 7,658 3,262	2,421 165 1,427 427 339		
Divisional Total	. 559		559	38,405	,	38,405	1,909		1,909	36,496		36,496	4,779		
PRESIDENCY DIVISION.													-		
Murshidabad Jessore	181 76 148	 	108 181 76 151 71	5,962 82,785 12,870 22,759 5,454	318	5,902 32,785 12,870 23,068 5,454	402 669 400 250 143	170	4/12 669 400 420 143	5,500 32,116 12,470 22,500 5,311	148	5,500 32,116 12,470 22,648 5,311	1,622 9,453 654 901 338		
Divisional Total	-	3	587	79,761	318	80,079	1,864	170	2,034	77,897	148	78,045	12,968		
Rajshahi	78 112 63 172 60	 9	78 112 68 172 69 108	12,334 23,846 20,957 13,752 10,639 9,965	86 360	12,334 23,932 20,957 13,752 10,999 9,965	834 202 5 5	46	834 202 5 46 452	11,500 23,644 20,957 13,747 10,639 9,513	86	11,500 23,730 20,957 13,747 10,953 9,513	330 2,878 374 262		
Divisional Total	598	9	607	91,493	446	91,939	1,493	46	1,539	90,000	400	90,400	3,844		
DACCA DIVISION.															
oacca	180 267 124 76		180 267 124 84	7,462 40,626 4,678 11,251	136	7,462 40,6:6 4,678 11,387	228 3,024 1,112 200	50	228 3,024 1,112 250	7,234 37,662 3,566 11,051	86	7,234 37,602 3,566 11,137	1,782 5,103 751		
ivisional Total	647	8	655	64,017	136	64,153	4,564	50	4,614	59,453	86	59,539	5,636		
CHITTAGONG DIVISION.															
ippera oakhali hittagong	126 90 70	::	126 90 70	6.664 6,774 4,441		6,664 6,774 4,441	1,543 395	===	1,543 395	5,121 6,379 4,441		5,121 6,379 4,441	684 3,548 769		
ivisional Total	286		286	117,879	••••	17,879	1,938		1,938	15,941		15,941	5,001		
PATNA DIVISION. atna	36 65 1 53 85 173 90	 / 34 	36 6 35 53 85 173 90	5,1'6 10,140 5,952 4,769 9,962 5,151 4,447	619	5,116 10,759 5,957 4,769 9,962 5,151 4,447	681 78 498 185	417	681 495 498 185 2 54	4,435 10,062 5,454 4,584 9,162 5,149 4,393	202 5	4,435 10,264 5,459 4,584 9,962 5,149 4,393	49 700 707 593 215 160	And the second s	
ivisional Total	503	37	540	45,537	624	46,161	1,498	417	1,915	44,039	207	44,246	2,423		
BRAGALPUR DIVISION.						- Albert Son						an Carallelana	elimonista.		
onghyr hagalpur urnea alda	55 71 88 54	1 	56 72 88 54	12,773 23,285 59,101 15,128	427 189	13,200 23,474 59,101 15,128	45 99 325 657	81 83	126 182 325 657	12,728 23,186 58,776 14,471	346 106	13,074 23,292 58,776 14,471	2,985 154 415	6.18	
ivisional Total ORISSA DIVISION.	268	2	270	110,287	616	110,903	1,126	164	1,290	109,161	452	109,613	3,568		
ottack dasore	74 50 25	2 5 1	76 55 26	4,251 2,498 1,6·6	47 686 134	4,298 3,184 1,820	283	68 258 34	351 258 196	3,968 2,498 1,524	-21 428 100	3,947 2,926 1,624	377 561 170		
ivisional Total	149	8	157	8,435	867	9,302	445	3 0	805	7,290	507	8,497	1,108		
GRAND TOTAL	3,594	67	3,661	4,55,814	3,007	4,59,821	14,837	1,207	16,044	4,40,977	1,800	4,42,777	39,327		

APPENDIX B.

Statement showing details of Educational Expenditure (vide Form No. III, columns 17 to

	INSPECT CLUDIN ARIES,			AINTAI	NED OR	MANAGED BOARDS.	BY D	ISTRICT				An	DED BY BO	ARDS.	art g		
D	LING	ALLOW AND CON- NCIES OF)-	special	including by Joint-		schools.	r boys.	d schools.	including	Act to	Middle s	chools.	Primary s	chools for	or girls.	, slo	T
DISTRICT.	Sub-Inspectors.	Inpecting pandits.	Training and other schools.	High schools schools managed Committees.	English.	Vernacular,	Primary schools for boys.	Grand total of Board	Special schools training schools.	High schools.	English.	Vernacular,	Upper.	Lower.	Primary schools for girls.	Total primary schools.	
1	2 .	3	4	5	6	7	8	9	10	11 -	12	13	14	15	16	. 17	
BURDWAN DIVISION. Bordwan Birbhum Bankura Midnapore Hooghly	Rs. 7,262 3,646 8,994 10,713 6,142	Rs. 3,333 1,649 2,065 2,615 2,17	Re,	Rs.	73.1 2,066	Rs. 3,578 1,911 2,500 4,293	Rs.	Rs. 3,578 1,911 2,500 5,029 2,066	Rs. 2,557 1,006	Rs 60	Rs. 10,490 2,825 3,414 5,373 8,214	Rs 3,264 1,298 2,634 2,793 1,495	Rs. 7,554 2,385 4,813 4,551 4,070	Rs. 10.251 5,157 8,669 21,74 8,585 2,072	Rs. 782 556 920 1,183 1,038	Rs. 18,537 8,098 14,4 2 27,074 13,693	2000
Howrah	33,838	12,508		156	3,869	12,283		1,223	3,563	60	32,865	12,378	2,883	66,065	738 5,176	5,698 87,497	300
PRESIDENCY DIVISION.	.e.							- 1									1
24-Parganas Nadla Murshidabad Jessore Khulpa	11,111 6,922 3,700 5,246 6,262	1,750 692 300 2,423 296	::	:::::::::::::::::::::::::::::::::::::::	:	1,464 1,886 1,430 1,080		1,464 1,886 1,430 ,080		300	4,915 7,238 3,079 4,790 3,391	4,543 1,903 1,219 4,980 2,552	2,758 3,076 2,266 5,110 3,234	19,863 6,959 8,741 8,071 8,409	520 1,521 332 1,435 1,(83	23,141 11,556 11,339 14,616 12,826	- 10
Total	33,241	5,461				5,860		5,860		300	23,413	15,194	16,544	52,043	4,891	73,478	1,11
RAISHIHI DIVISION.																	
Rajshahi Dinajpur Jalpaiguri Rangpur Bogra Pabna	4,366 5,905 3,260 7,872 1,817 3,869	380 3,284 536 1,377 1,978	4,872 2,826 7,708		945 584 1,529	664 2,552 407 2,865 2,987 349 9,824	5,661	864 3,497 991 7,737 8,648 3,185	1,825 60 360 2,245	71	2,594 2,031 1,050 3,130 1,329 3,965	1,493 1,177 1,207 4,301 1,214 2,237	4,927 2,968 1,622 5,906 6,035	11,517 8,476 3,462 16,885 6,791	288 311 471 737 1,352	16,032 11,755 5,575 23,528 13,178	51 12 en 52 en 53 en 53
Total	27,089	7,555	7,708	-	1,020	9,024	5,001	27,122		-	14,000	17,000	10,100	27,101		- 10,000	
Dacca Mymensingh Faridpur Backergunge	7,861 7,491 5,405 6,087	3,311 4,744 2,441 5,710	2,454	=	::	2,527 1,890 2,074	814	5,795 1,890 6,914	155 265	265	6,847 6,417 5,285 4,560	4,394 2,583 2,206 1,8:3	6,376 8,344 6,119 5,626	9,853 12,646 6,183 9,236	2,307 1,940 4,305 1,825	18,536 22,930 16,607 16,387	S 12 12 13 15
Total	26,844	16,206	7,294	***		6,491	814	14,599	420	265	23,109	10,956	26,465	37,918	10,077	74,460	1
CHITTAGONG DIVISION. Tippera Noakhali Chittagong	4,922 3,956 4,111	3,896 3,245 2,862	2,700			925 1,819 2,621		3,625 1,819 2,621	110	360	2,562 2,200 2,896	1,721 1,943 2,669	4,378	13,590 8,364 9,426	3,591 9.3 1,990	24,907 13,665 15,467	99 17 91
Total	12,989	9,967	2,700			5,365		8,065	110	360	7,658	6,333	16,155	31,380	6,504	54,039	65
Patna Division. Patna	4,356 4,069 3,614 4,165 1,944 4,135 3,024	2,889 2,592 1,845 2,429 1,434 3,034 2,658			1,053 1,312	3,370 2,071 1,778 3,379 828 1,115 325	:	3,370 2,671 1,778 3,379 1,881 1,115 1,637	73 	111111	1,306 689 - 585 469 1,093	180	2,770 3,291 2,511 1,797 1,829 2,237 2,537	11.721 11.528 9,587 8,871 5,746 11,256 15,560	1,220 491 68 793 38 417	15,711 15,319 11,966 11,461 7,613 13,919 18,007	a manaman a
Total	25,307	17,281			2,365	12,866		15,231	560		4,142	322	16,972	74,069	3,027	94,068	
BRAGALPUR DIVISION.															2.517	15,248	8
Monghyr Bhagalpur Purnea Malda	3,855 3,798 3,820 1,870	* 2,985 2,935 2,582 1,549	2,864	1,300	2,556	3,547 1,641 1,500		4,847 2,556 4,505 1,500	::	192 	676 1,021 774 1,073	432 455 2,363	2,805 3,240 2,792 4,322	9,826 9,247 12,838 3,648	2,617 392 85 353	12,879 15,765 8,323	- HAND
Total	13,343	10,051	2,864	1,300	2,556	6,688		13,408		192	3,544	3,250	13,159	35,549	3,447	52,155	-
ORISSA DIVI-																	-
Cuttack Balasore Puri	4,645 3,351 2,533	5,313 4,578			505	1,650 586 1,830	447	2,602 586 1,830	100 175	900	3,557 2,146 785	687 1,531 1,020	5,774 4,316 2,016	12,873 7,465 3,929	1,714 828 280	20,361 12,609 6,355	
Total	10,529	1,607			505	1,830 4,066	447	5,018	275	900	6,488	3,238	12,436	24,267	2,622	39,325 545,000	
GRAND TOTAL	1,83,180	90,527	20,560	1,456	10,824	63,442	6,922	1,03,210	7,173	2,148	1,15,318	63,240	1,47,445	3,58,442	\$9,203	540,070	1

DIX B.

incurred by the District Boards in Bengal during the year 1896-97.

Son	OLARSH	1PS HE	LD IN-					Miscri	LANE	ous.	44.0				ednes.	primary income.	- A 75
					iilding lumitu		abo	nents to	p	rizes and rewards.		ontingent charges.	charges.	1.10	primary		
Primary schools.	Secondary schools.	Special schools.	Total.	Secondary schools.	Primary schools.	Total.	Secondary schools.	Primary schools.	Secondary schools,	Primary schools.	Secondary schools.	Primitry schools.	Total miscellaneous	Grand Total.	Total expenditure on tion.	Ratio of expenditure on education to total ordinary	REMARKS.
19	20	21	22	23	24	25	26	27	28	29	30	31	(9.32	33	34	35	36
Rs. 213 845 179 606 234 2,077	Rs. 645 264 455 1,359	710	643 477 845 631 606 980	Rs. 78 325 403	200	1.8	Rs. 333 10 20 804 21 1,167	255 / 3 183 175 210 43 869	Rs.	Rs. 653 500 704 1,649 1,603 650 5,750	The said	Rs. 172 400 713 34	1,051 2,134	51,044 20,925 31,988 57,003 37,005 15,037	Rs. 28,596 13,765 22,316 40,287 23,197 8,989 1,37,152	15·6 14·04 19·7 18·1 15·7 13·1 16·6	
160 89 150 134 623	242 320 289 437		402 409 439 571 622	175 250 425	350 100 515	240 600 100 	94 200 294	-170 191 125 117 533	E	742 277 825 674 252 2,270	36	504 94 47 717 68	1,756 499 1,009 1,522 633 5,500	49,076 31,095 7 21,173 7 3,583 7 27,966	35,421 19,217 15,876 23,298 19,190 1,13,062	20°6 15°63 16°4 17°33 18°3	
298 233 189 453 198 100	267 125 141 308 419 229	83 11	565 368 310 844 628 329 3,064	154 121 100 	10 392 	164 513 100 	123 71	208 258 114 205		457 1,987 478 428 98 398 3,146	212 41 253	363 	1,199 2,189 739 1,229 310 64	30,198 13,152 50,996 15,383 1 29,813	21,241 21,933 9,011 31,987 8,787 18,951	18'0 17'4 7'8 16'1 14'1 22'1	
706 ,184 ,342 ,358 ,620		604 324 928	706 1,788 342 712 3,548	50	25 25	25 60 8. 75	16	393	***	1,310 1,797 149 3,256	28	78 336 538 487	1,44 2,55 58 60 5,3√	43,115 54,426 3 34,979 43,094	30,274 37,835 24,252 27,990 1,20,351	24°1 14°5 21°8 11°2	
310 422 194 926	430 345 355 1,130	195 30 225	935 797 549 2,281	341 202 543	32 32	373 202 575	11	88 52 53 193		980 899 747 2,626	184	849 84 334 1,267	2,112 1,408 1,336 4,856	29,143 32,475	34.967 21,564 22,910 79,441	24'5 19'8 17'3 20'7	
147 524 824 205 113 370 624	\$33 606 272 355	314 2.6 424 474 126 	1,461 820 1,581 1,285 511 725 624 7,007	50 24 67 	68	68 50 24 67 		88 2,528 1,981 91 450	74	1,634 8,661 633 1,587 658 1,820	33 234 185 35 	844 260 161 1,035	1,634 4,661 3,244 4,160 1,095 3,407	29,421 31.444 24,717 27,644 15,434 27,419 26,040 1,83,119	24,866 26,742 18,159 21,255 11,625 23,927 20,718	12°2 9°3 8°8 11°0 11'8 9°4 7°6	
498 120 288 288 194	219 226 116 165	58 79 113	775 425 404 566	23 288 73 521	146 115	23 434 73 556	32	52 143 53 142	6 36	1,539 2,018 908 672	315 29 38	665 367 99 313	2,632 3,027 1,133 1,701	31,450 24,833 29,378 18,945	24,071 91,648 - 22,691 12,798	12·3 13·0 13·0	
527 190 112	833 208 505 1,636	261 91 195 547	1,621 489 902 3,012	88 121 226	1336 49	1,066 101 121 262 484	20 200 200 359 579	564 424 81 1,069	-49 	1,650 1,253 542 3,445	382 35 349 384	239 140 379	2,609 1,998 1,733 6,340	41,495 27,463 17,665 86,623	\$2,696 \$21,735 10,899 65,330	27·7 30·62 19·3 26·6	
079	9,294	4,424	27,707	2,277	1,521	4,798	2,293	9,370	116	35,623	1,781	10,709	64,690	12,02,283	8,55,664	15.1	N

APPENDIX 6.

Statement comparing the salaries of District Engineers, the size of their Districts, and the expensiture on Public Works in Bengal during the year 1896-97.

NAME OF	0		1	A STATE OF		\$ 65								6	a l		12 13	* 14	15	
NAME OF DISTRICT.			uewe		*	EXPEN	EXPRIDITURE ON	CIVIL	WORKS IN 1897-97.	395-97.			plits		PERCE	PERCENTAGE.	P.			
NAME OF	10 \$	- 81 - 100 - 100	State,	(a)	(9)	(e)	(4)	(9)	(c)	(8)	(y)	(9)	u Di			(0)	snid	*8.1001		
*	Area in square miles (column	Length of District Bonds.	Total expenditure (column 95,	Public Works under " Pamine relief."	Ferries- Establishment, &c.	Original Works.	Repairs.	Establishment,	Tools and plant.	.ogsniszb bas Lląqus-rożsW	Contingencies.	JaioT	Annual charge on account of	Ot column 7 (1) on column 6.	Of column 5 on column 5.	Of column 8 on column 7 (e). To column 7 (e) on columns 7 (f.).	(a) 7 sumulos no 8 mmulos 10	Rate of salary of District Engin	BRUFE	
Burdwan Birbhum Bankura Midnipore Hooghly	2,669 1,751 1,751 5,114 4,06	Miles, 538 434 631 631 631 76	Rs. 2,70,593 1,06,014 1,08,942 2,06,634 1,82,806 71,097	111111	Rs. 17 844 5,263 618	Re. 24,665 14,146 10,601 18,326 9,447 5,084	Rs. 1,31,042 41,345 41,346 68,416 85,950 25,764	Re. 16,741 7,356 9,582 18,954 13,626 6,429	Re. 168 44 80 1,241 1983 73	Re. 8,881 1,363 1,781 2,315 5,487	Rs. 609 129 167 245 297 111	Rs. 1,82,101 63,897 1,14,780 1,23,548 37,461	Re. 6,575 9,660 7,341 8,405 3,139	67.3 64.14 58.6 55.5 64.07	619 1997 1706 83 84 84	39-2 10-7 40-7 13-4 38-1 18-4 38-7 21-8 38-3 13-1 48-8 20-8	4.25 4.25 4.25 4.25 1.01	Rs. A. P. Store O O O O O O O O O O O O O O O O O O O	Tron allow To	70.5
Total	13,803	2,774	9,56,086	i	6,242	82,289	4,05,409	72,688	1,744	19,827	1,468	5,89,667	28,120	9.19	7.6	38.6 14.9	9 6.7			GEL GEL
24-Parganss			2,73,584	ŀ	1,002	8,658	1,40,010	24,021	200	10,064	1	1,84,054	8,240	. 2.*	% **	34.3 16.1	1 6.5	Rs. 680 for 8 months Rs. 700 for 4 months.	9708 e.J.	tyrae all
Nadia Murshidabad Jessore Khulna	2,798 2,998 7,017	1,254'9 543'5 533 469	1,48,352 1,46,073 1,92,471 1,27,879	11,168 6,253 1,189	889 270 600	13,744 2,426 29,215 12,664	33,926 33,926 66,799 28,236	15,587 12,208 23,341 10,086	146 138 290 282	3,456 3,456 3,814 2,469	1,968 173 261	76,281 61,243 1,16,902 55,727	4,787 5,600 12,194 3,000	51.4 57.7 60.7	10.4 30 11.5 44 12.1 53	30-7 45-8 53-2 53-2 24-6 24-6	.6 10.3 2 15.3 6 7.3		1.19.25117 1.19.25117 1.19.1011	
Total	11,871	2,730.4	8,48,359	18,610	2,761	59,647	3,01,521	85,213	1,139	22,919	2,397	4,99,207	33,821	1 2.89	10.0	39.6 23.2	2.0	L (Diverse		114.11
Rajshahi Dinsipur Jahasguri Rangpur Boorra Pabna	2,322 4,113 1,450 1,440 1,833	488 1,007 674 1,386 370 378:5	1,41,156 1,77,747 1,41,114 1,99,974 78,696 98,726	3,749	8 F	14,944 29,922 35,935 40,907 16,545 13,531	44,168 53,531 43,661 36,874 22,775 25,870	13,658 16,237 16,237 21,431 7,864 8,426	* 745 9818 987 1789 1889	8,507 2,765 5,296 2,464	160 283 328 424 121 302	80,773 1,04,379 95,890 1,06,721 49,880	7,851 6,000 6,885 8,000 8,470 8,420	5679 6877 6870 3278 3078	9.8 111.5 9.8 9.8 9.8 9.8 9.8	28.5 35.8 19.9 48.4 20.7 44.1 19.9 36.2 28.8	56 5 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Rs. 650 650 550 750 290 290		
Total	16,065	4,390.5	8,38,383	4,268	781	1,51,234	2,26,669	85,613	2,816	13,772	1,620	4,86,773	36,626	68.0	10.5	42.7 22.6	9.6 9.	3,020		
Daces	2,769	3	1,82,205	1	5,117	32,358	818,818	13,283	619	5,185	388	1,10,762	4,800	7-09	7.2	98.1 15.4	9.9	Rs. A. P.		
Mymensingh	gh 6,274	626.5	8,18,179	1	16,697	78,064	66,770	21,379	1,730	17,368	1,000	1,95,908	4,807	\$ 2.19	6-7	22.4 15.5	5.8	Rs. 550 up to 6th Septem- ber and affer.	* 4:101	k n
Faridpur Backergunge		147 276 276	1,17,638	111	6,951		20,877	9,413	54	7,855	275	56,230 1,91,082	3,071	70.2	8.0 32	32.6 29.8 11.5	0.40 0.40	-		
Total	14,939-5	9.5 1,525.5	8,89,994		28,665	2,36,100	1,84,361	62,267		37,728	2,004	5,53,952	18,113	67.5	6.9	1	-			

000	100	12.50 2.00 2.00	700	or 2	9.0	1	de	ths.	ins.	1	# * \$\$\$		1
0 009		Rs. 500 550	1,000 800 850 for montbs,	for 6 ment 350 for menths.	1,000		Rs. 450	750 for 8 months.	600 200 to 250		Rs. 2504		
6.9	6.1	20	10.6 12.1 16.7 30.8		4.9	11.3	65	2.08	6.4	2.2	15.03 6.5 17.1	12.1	1 0
20.2	20.3	24.6	24.5 29.1 46.5 49.6		34.6	26.3	9.11	18.8	19.9	16.6	31.5 111.5 45.1	24.2	2.06
33.6	33.5	33.3	43.3 115.67 85.8 67.4		41,57	42.6	28-9	37.5	87.3 89.48	34.6	47.6 56.2 48.1	49.4	1 48
9.1	6.8	10.5	12.8 11.4 11.5 15.9		8.7	1 0	8.9	8.1	11.4	80.50	12.2 5.7 12.8	1.01	1 16
26.4	22.1	52.3	68.08 62.15 86.8 75.9		75.6	61.7	9.11	9.29	67.0	65.8	51.5 57.4 52.0	53.6	80.3
4,800	16,800	7,008	15,071 10,842 11,439 1110,889		9,238	78,187	6,000	9,400	8,303	25,789	8,000 3,868	13,642	2,51,098
1,40,503	3,14,201	1,09,230	1,84,835 1,41,527 1,02,035 1,83,112		2,14,508 2,73,806	11,08,553	2,18,637	2,01,017	1,30,113	5,90,389	59,889 53,871 32,629	1,46,389	42.84.161
1,537	2,307	98	629 961 602 673		546	3,871	1,244	420	473	2,458	224 31 42	762	16,423
3,212	9,554	1	4,208 7,350 2,802		811	15,171	10,086	414	1,657	13,670	2,135 397	2,509	1.35,159
795	1,779	61	2012 0553 872 993		1,087	5,766	2,018	1,559	289	4,135	204	814	20.550
14,261	60,716	1:011	34,785 25,990 81,888 17,507		23,218 29,817	1,83,236	22,503	28,141	22,939 6,803	80,386	14,209 5,339 8,041	27,589	8.47.708
58,550 61,737	1,40,562	72,462	66,938 58,726 49,445 12,406		54,754	3,37,090	88,313	176,971	85,075	2,73,663	40,083 16,649 14,548	71,219	19:40.498
30,825 53,033	1,08,874	13,081	74,935 30,385 28,121 28,277		1,33,248	3,57,384	86,98	55,638	19,700	1,74,289	5,046 29,717 6,280	41,043	46.823 ,12.10.860
395	409	1	638 709 687		1,990	\$,904	3,945	1	11	3,945	116	116	46.893
111		1,974	16,853		3,951	2,02,131	i	37,844	11	37,844	 3,281	3,302	2,66,155
1,50,037	5,63,718	2,04,722	2,33,237 2,76,756 2,76,670 1,40,872		3,41,447	18,26,892	3,04,368	3,06,243	1,94,033	8,97,247	1,16,085 93,874 62,816	2,72,775	70.93,454
3333	11,935	999	848 398 1,015 1,041.4		1,150.1	6,923,5	787	1,719	998	3,982.2	460 305 146	911	24,420.6
1,645	6,641	2,045	4,699 4,403 2,610 3,515	dina	2,982 3,331	23,585	3,922	4,218	4,870	14,908	3,618 2,660 2,476	8,154	1,09,972.5
1 1 9	1 1	* 1	1111		- I	1	1	1	11	1	Lii	-1	1
Noakhali Chittagong	Total	Patna	Gaya Shahabad Saran Champaran		Muzaffarpur Darbhanga	Total	Monghyr	Bhagalpur	Purnes Malds	Total	Cuttack Balasore Puri	Total	GRAND
41 10			0100 410		-10		1	63	00.48		H 63 69		
- Smod		1					Bhagalpur				1		
		Patns					ilagai	*			Orissa		

STOCKS OF RICE IN AND AROUND DALCUTTA.

No. 3264 Stats.-The following is published for general information.

Secy, to the Gort, of Bengal,

M. FINUCANE,

Statement showing the Stocks of Rice in and around Calcutta during December 1897. Stock in hand as compiled on-

NAMES OF MARTS.	1st week of Dec. 1896.	1st week of Nov. 1897.	2nd week of Nov. 1897.	8rd week of Nov. 1897.	4th week of Nov. 1897.	6th week of Nov. 1897.	1st week of Dec. 1897.
Balfaghatta	Mds. 1,47,000 26,500	94,700 12,800	1,02,500	1,13,500 13,500	1,21,500 14,050	Mds. 80,000 11,300	Mds. 86,000 10,600
Chitper, Golabari, Kumartuly, Hatkhola, and Oulpi Ghat	3,26,800	1,06,000	1,12,600	1,19,700	1,23,000	006,78	1,04,700
Pathuriaghatta, Posta, and Jorahagan	200	1,250	1,450	1,600	1,700	1,300	1,450
Tollygunge, Chetla, Kidderpore, and Munshiganj Minor bazars (1) Other retail shops (1) Ramkristopur	2,40,000 2,50,000 71,100	2,40,000 2,50,000 29,300	2,40,000 2,50,000 33,300	48,900 2,40,000 2,50,000 35,500	53,200 2,40,000 2,50,000 40,900	51,100 2,40,000 2,50,000 36,800	2,40,000 2,50,000 48,400
Baidyabati, Nawabganj, Bhadres-	14,494	3,178	3,622	1,747	2,800	1,400	15 C 1746
Total	11,32,994	7,82,928	8,69,672	8,22,447	8,47,150	7,69,800	7,98,49
On Bailway premises on both sides of the river.	3,160 (on 7th	85,743 (on 30th	68,494 (on 6th	92,515 (on 13th	75,787 (on 20th	48,987 (on 27th	39,29 (on 4th
On boats not yet unloaded— By Port Commissioners' returns	Dec. 1896). 13,301 (5th to 7th	Oct. 1897). 25.203 (30th Oct. to 1st Nov. 1897).	Nov. 1897). 37,366 (6th to 8th Nov. 1897).	Nov. 1897). 31,473 (13th to 15th Nov. 1897.)	Nov. 1897) 27,015 (20th to 22nd Nov. 1897.)	Nov.1897), 83,033 (27th to 29th Nov.	Dec. 1897). 39,679 (4th to 6th Dec. 1897).
By Canal returns	1896). 22,884 (5th to 7th Dec. 1896).	7,128 (30th Oct. to 1st Nov. 1897).	7,046 (6th to 8th Nov. 1897).	6,323 (13th to 15th Nov. 1897.)	14,100 (20th to 22nd Nov. 1897.)	5,900 (27th to 29th Nov. 1897.)	15,752 (4th to 6th Dec. 1897).
Grand Total of Stooks	11,72,339	9,01,002	9,22,778	9,52,758	8,64,052	8,57,720	8,93,221

• This marf is in the Howrah district, and the figures have been obtained by local enquiry,

• Figures furnished by the Collector of Hooghly.

2 Ditto by the Railway authorities.

(1) Estimated as a constant quantity.

Secretury to the Government of Bengal,

M. FINUCANE,

STATISTICAL DEPARTMENT,

STATISTICS OF THE SEA-BORNE TRAFFIO OF CALOUTIA

No. 3306 Statistics. - The following memorandum and statements are published for

STATISTICAL DEPARTMENT, The 7th December 1897. M. FINUCANE,
Secy. to the Gort. of Bengal.

Memorandum.

THE sea-borne import and export traffic of Calcutta in food-grains during the week ending 21st November 1896 and the corresponding period of 1897 is shown in the following statement:—

			15тн то 21	T NOVEMBER	*
		189	96.	18:	97.
1	7	2	3	4 50	5.
Imports.		Cwts.	Mds.	Cwts.	Mds.
From Foreign Ports Indian	:::	8 44,114	60,044	2,613 48,851	3,557 66,491
Total		44,122	60,055	51,464	70,048
Exports.			2/2/2	3- 20- 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	
o Foreign Ports	:::	79,855 24,458	1,08,6 9 2 33,290	75,467 36,366	1,02,719 49,498
Total	•••	104,313	1,41,982	111,833	1,52,217

Imports.—The staples comprising the import traffic are shown in the table below, and the figures for the period are compared with those for the corresponding period of last year:—

on the		15тн то 21s	November	
6	189	96.	189	97.
1	2	3	4	5
Food-grains.	Cwts.	Mds.	Cwts.	Mds.
Rice Paddy Whoat Gram and pulses Other food-grains, such as jowar, barley, oats, &c.	32,729 4,390 46 6,957	44,548 5,975 63 9,469	38,977 5,631 6,760 96	53,052 7,664 9,201 131
Total	44,122	60,055	51,464	70,048

Imports.—During the period under report, the imports of rice amounted to 38,977 cwts., against 32,729 cwts in the week ending 21st November 1896. The amount imported from Burma was 20,810 cwts., against only 5,719 cwts. in the third week of November 1896, that from Chandbali and Balasson 15,641 cwts, against 27,010 cwts. and that from the Straits Stationer to 2,517 cwts. the Straits Settlements 2,517 cwts. against nil in the corresponding period of last year. Imports of paddy and gram and pulses remained very nearly the same as in the corresponding week of 1896.

Exports.-In the following statement the total quantity of each kind of food-grain exported by sea during the third week of November 1897 is compared with that for the corresponding period of 1896:—

		15тн то 21s	r November	e de la contractión de la cont
	18	96.	189	7.
» 1	2	3	4 *	ð
Food-grains.	Cwts.	Mds.	Cwts.	Mds
Rice	67,349 393 32,153 4,418	91,669 535 43,764 6,013	98,865 3,718 2,233 6,618 404	1,34,566 5,054 3,039 9,008 550
Total	104,313	1,41,981	111,833	1,52,217

The exports of rice from Calcutta to foreign ports rose from 64,618 cwts. in the flird week of November 1896 to 74,534 cwts. in the period under report. There were no exports to Mauritius which took 40,011 cwts. in the corresponding period of last year. The despatches to Ceylon showed an increase of 45,616 cwts., and those to Aden of 5,262 cwts. The exports of gram and pulses fell from 11,952 cwts. to 902 cwts., and those of miscellaneous food grains from 2,947 cwts. to only 27 cwts, owing chiefly to the cessation of exports to Mauritius which received 9,653 cwts. and 2,947 cwts. respectively in the corresponding period of 1896. received 9,653 cwts, and 2 947 cwts. respectively in the corresponding period of 1896.

As regards Indian ports, the exports of rice during the third week of November

Indian ports.

Indian ports.

1897 amounted to 24,331 ewts, against only 2,731 ewts. in the corresponding period of last year, owing chiefly to larger exports to Bombay and the Madras ports. Exports of paddy to Cochin and Calicut aggregated 3,709 ewts., and wheat to Rangoon 1,736 ewts against nil in the corresponding week of 1896. The decrease under gram and pulses amounted to 14,485 ewts. in consequence of the cessation of exports to Bombay, which took 14,427 ewts. in the corresponding period of last year. ponding period of last year.

Detailed statements showing the sources of supply and the places of destination, both as regards Foreign and Indian ports, are given below:-

Statement No. I, showing the Imports of Food-grains into Calcutta from Foreign and Indian Ports during the week ending 21st November 1896 and 1897.

	PORTS.			Rice.	Paddy.	Wheat.	Gram and pulse.	Other food-grains, such as jowar, bar- ley, oats, &c.	Total.
	1			2	3	4	5	6	7
	From Indian Por			Cwts.	Cwts.	Cwts.	Cwts.	C-4-	
	Madras	{ 1896	***	9	·····	******	407	Cwts.	Cwts 407
		(1091	•••	9	*****	•••••	4		13
	Coconada	$$ $\begin{cases} 1896 \\ 1897 \end{cases}$	***				2,066		9.000
Madras	}	(1897					3,518		2,066 3,518
Haures		€ 1896				145-1	150		*
	Masulipatam	{ 1896 1897	***			******	153		153
		£ 100¢							******
	UTuticorin	{ 1896	***		37				37
		(100)		******		99: ***	*****		
	Rangoon	{ 1896		5,719		46	367		6,132
urma	1	1897	***	5,913		******	1,521		7,431
dima	"]	(1896							
1114	(Moulmein	{ 1896 1897	***	14,897	*****				14 902
		(1000		0.000	0.700				14,897
	(Balasore	{ 1896	***	9,650	3,730 864	*****	550		13,930
alasore	}					*****	•••••		1,724
***	Chandbali	{ 1896 1897	***	17,360	623	******	3,406		21,389
		(1897	***	14,781	4,767		1,717		21,265
	Total Indian Ports	£ 1896	***	32,723	4,390	46	6,949		44
	Total Indian Ports	[1897	***	36,460	5,631		6,760		44,114 48,851
	From Foreign Ports					-			20,001
	From Foreign Ports	•							
hina-Ho	ng-Kong	{ 1896			****		7		7
	-8-mons	(1897		******	******				
		(1896						i in the second	
traits Sett	lements	$$ $\begin{cases} 1896 \\ 1897 \end{cases}$		2,517					2,517
		£ 190e	. 1	1					2,017
ictoria		$$ $\begin{cases} 1896 \\ 1897 \end{cases}$							
		_					,	96	. 96
ew Zealar	id	{ 1896 1897					1		1
		(1897			******		*****		
	Total Parata Danta	£ 1896					8	-	
	Total Foreign Ports	{ 1897		2,517				96	2,613
	Grave Toris	OF (1906	1	99.700					
	GRAND TOTAL FOREIGN AND	OF { 1896		32,729	4,3 90	46	6,957		44,122
	DIAN PORTS	(1897		38,977	5,631		6,760	96	51 464

Statement No. 11, showing the Exports of Food-grains from Calcutta to Foreign and Indian Ports during the week ending 21st November 1896 and 1897.

	PORTS.			Rice.	Paddy.	Wheat.	Gram and		Total.
	Loage						pulse.	jowar, bar- ley, oats, &c.	
	1	, stylk .	465	2	3	4	6	6	7
(Paris)		1-00 1-00 10 10 10 10 10 10 10 10 10 10 10 10 1		62.04			and the	and the second	
To I	Foreign Port		1	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.
United Kingdom	.ž	{\\ \begin{aligned} 1896 \\ 1897 \end{aligned}	:	11,080 11,020	4		976 447	===	12,056 11,471
Mauritius		\cdots $\begin{cases} 1896 \\ 1897 \end{cases}$:::	40 011	===		9,653	2,947	5 2,611
South America—Dem	ierara	(1896 (1897	:::	::	===		880	*	890
West Indies-Trinidad	d	$$ $\begin{cases} 1896 \\ 1897 \end{cases}$:	:::			359		350
Adea		$$ $\begin{cases} 1896 \\ 1897 \end{cases}$:::	3,832 9,094	===				3,832 9,094
Arabia-Muscat	•	{ 1896 1897	::	891		•••••			891
Ceylon	•••	{ 1896 18 97	==	8,804 54,420			305 96	27	9,109 54,543
China-Hong-Kong		··· {1896 1897	=			185	9		194
Straits Settlements	•••	{\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	:::			158	129		282
Tota	ı! Foreign Po	orts { 1896 1897	:	61,618 74,534	174	338	11,952 902	2,947 27	79,955 75,467

	Ports.			Rice.	Paddy.	Wheat.	Gram and pulse.	Other food-grains such as jowar, barley, oats, &c.	Total
(6.18)	-and description 1	e cases W		2	3	4	5	6	7
	To Indian P	Ports.		Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Owte
Bombay		{ 1896	 75	1,8 0 9,130		*** **	14,427	::: ::	16,237 9,130
	Madras	{ 1896 1897	::	73 3 1,288	EE.	45 479	3, 954 3, 599	.	4,732 5,366
•	Badagara	{ 1896 1897	$(i,(\gamma,\alpha),\beta),(j),\zeta_{\mathbf{g}}$	1,247	1		*** 1		1,247
.88	Calicut	{1896	22770	5,583	367		*****	*****	5,950
Madras	Cannanore	{ 1896 1897		249			:::::		249
	Coehin	{1896 1897		5,945	3,342		*****	:::::	9,287
18	N' egapatam	{ 1898 1897	:	12.00	*****	15		===	**************************************
M.	Tellicherry	{ 1896 1897	::	499				:::::	499
	(Vizigapatam	{1896 1897		3	*****		·····		3
	Akyab	{ 1896 1897		188 384		1,736	1,114 1,571	1,471 377	2,773 4,068
Birma	Kyoukpyoo	{1896 1897		6.7.2.27			90		90 44
	Moulmein	{1896 1897		2		*****	3		3 2
Hil tagons		{1896 1897			•••••		194	****	193
Balasore	(Balascie	{1896 1897 {1896 1897	-			3	824 102	:::::	324 105
alasore	Chandbali	{ 1897 { 1896 1897				10	114 20 41		20
				1			187		J88
	Total Indian Po	orts { 1896 1897	=	2,781 24,331	3,709	2,233	20,201 5,716	1,471 377	24,458 36,366
	GRAND TOTAL FOREIGN AN DIAN POETS.	or [1896]		67,349	0.510	393	32,153		104.313
		(1001		98,865	3,713	2,233	6,618	404	111,833

STATISTICS OF THE SEA-BORNE TRAFFIC OF THE MINOR PORTS IN BENGAL IN FOOD-GRAINS.

No. 3259 Statistics.—The following memorandum and statements are published for general information.

STATISTICAL DEPT., The 7th December 1897. M. FINUCANE,
Secy. to the Govt. of Bengal.

Memorandum.

THE comparative statements below give statistics of the import and export trade of the minor ports of Chittagong, Narayanganj, Balasore (including both Balasore and Chandbali), Cuttack, and Puri during the week ending 21st November 1897, as compared with the trade of the corresponding period of 1896:—

IMPORTS.

Port	e.		From Foreign ports.	From Indian ports.		Total.
			Cwts.	Cwts.	Cwts.	Mds.
Chittagong	1896	•••		405 3,589	405 3,589	551 4,885
Narayanganj	•			******		
Marayangan	··· 1897	***	******	******		•••••
Balasore por	ts { 1896 1897	:::	:::::	245 421	245 421	334 578
Outtack	1896 1897	:::	******		******	
Puri	··· { 1896 1897					***
			-		-	
Total	··· { 1896 1897		*****	650 4,010	650 4,010	885 5,458
				123 20 100 100 100 100 100 100 100 100 100		THE STREET SHIP IS A STREET SHIP IN STREET SHIP IN SHIP IS A STREET SHIP IN SHIP

EXPORTS.

Ports			To Foreign	To Indian	m.4	.1
			ports.	ports,	Tot	al.
			Cwts.	Cwts.	Cwts.	Mds.
m :44	(1896	•••				
Chittagong	1897	**		******	•••••	
Narayánganj	(1896			*****		******
Narayanganj	1897	***	******		******	
Balasore port	8 1896 1897		******	21,875 13,555	21,875 13,555	29,774 18,450
Cuttack	{ 1896 1897	:::	2,865 13,565	436 3,894	3,301 17,459	4,493 23,763
Puri	{ 1896 1897	:::				
						
Total	$$ ${1896 \atop 1897}$	···	2,865 13,565	22,311 17,449	25,176 31,014	34,267 42,213
						-

The imports of rice into Chittagong during the week under report amounted to 3,069 cwts., of which 2,996 cwts. came from Burma against nil in the week ending 21st November 1896. The export trade of the Balasore ports fell off by 8,320 cwts., chiefly on account of smaller despatches of rice and gram and pulses to Calcutta. False Point despatched 17,459 cwts. of rice to Colombo and Cochin, against 2,865 cwts. during the corresponding week of the last year. Bombay, which received 436 cwts. of rice from False Point during the week ending 21st November 1896, drew nothing in the period under review.

Detailed statements showing the sources of supply and the places of destination, both as regards Foreign and Indian ports, are given below:—

Statement showing the quantities of Food-grains imported into Chittagong from each Foreign and Indian Port during the week ending 21st November 1897, as compared with the trade of the corresponding period of 1896.

PORTS FROM WHICH IMPORTED.	The state of	lice.	Pa	ddy.	Wh	neat,	Gra	m and alse,	food-g	her grains, jowar, oats, &c.	To	TAL.
	1896,	1897.	1896.	1897.	1896.	1897.	1896,	1897.	1896.	1897.	1896,	1897.
1	2	3	4	5	6	7	8	9	10	11	12	13
Foreign Ports, .	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Owts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.
Indian Ports, Burma—Rangoon		2,996				9	201	433 15	204	63	405	2,996
Total		3,069		7		9	201	448	204	63	405	3,589

Statement showing the quantities of Food-grains imported into Balasore from each Foreign and Indian Port during the week ending 21st November 1897, as compared with the trade of the corresponding period of 1896.

PORTS FROM WHICH IMPORTED.	Ri	ce.	Pa	ddy.	Wi	neat.	Gran	and lse.	grains,	r food- such as barley, , &c.	Tot	ai,
***************************************	1896.	1897.	1896.	1897.	1896.	1897.	1896.	1897.	1896.	1897.	1896.	1897
1	2	3	4	5	6	7	8	9	10	11	12	18
Foreign Ports.	Cwts.	Cwts.	Owts.	Cwts.	Cwts.	Cwts.	Cwts,	Cwts.	Cwts.	Cwts.	Cwts.	Cwt
Nii									*****		100	
	or balley to a con-				******							6-04 14
Indian Port.												
Daloutta		1					245	223		197	245	421
Total		1					245	223		197	245	421

Statement showing the quantities of Food-grains exported from Balasore to each Foreign and Indian Port during the week ending 21st November 1897, as compared with the trade of the corresponding period of 1896.

PORTS TO WHICH EXPORTED.	Ri	ce.	Pac	ldy.	W	heat.		n and lse.	grains,	food- such as barley, , &c.	т	otal.
	1896.	1897.	1896.	1897.	1896.	1897.	1896.	1897.	1896,	1897.	1896.	1897
1	2	3	4	-5	6	7	8	9	10	11	12	8
Foreign Ports.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwt
Nii										••••		
Indian Port.		•										
alcutta	16,527	9,630	3,172	3,664	*****		2,176	261			21,875	13,555
Total	16,527	9,630	3,172	3,664			2,176	261			21,875	13,555

4678 SUPPLEMENT TO THE CALCUTTA GAZETTE, DECEMBER 8, 1897.

Statement showing the quantities of Food-grains exported from False Point in the Cuttack district to each Foreign and Indian Port during the week ending 21st November 1897, as compared with the trade of the corresponding period of 1896.

PORTS TO WHICH EXPORTED.	R	ice.	Pad	dy.	Wh	eat.	Gran pu	and lse.		food-	То	tal.
	1896.	1897.	1896.	1897.	1896.	1897.	1896.	1897.	1896.	1897.	1896.	1897.
2	2	8	4	6	6	7	8	9	10	11	12	13
Foreign Port.	Owts.	Cwts.	Cwts.	Owts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Owts,	Cwts.
Colombo	2,865	13,565				·					2,865	13,565
Bombay	486	3,894	<u></u>								436	3,894
Total	3,301	17,459									3,301	17,459

EXPORTS OF FOOD-GRAINS BY THE EAST INDIAN RAILWAY.

No. 3308 Statistics.—The following statement shows the quantity of rice and other food-grains exported by the East Indian Railway from Calcutta and Howrah during the period from 1st January to 27th November 1897, both days inclusive, to have been 1,03,08,365 maunds. The destination of 1,00,96,662 maunds is specified. Of this quantity 32,87,921 maunds were carried to the North-Western Provinces and Oudh, 44,46,996 maunds to stations in Bengal, 15,49,375 maunds to the Central Provinces, and the rest, 8,12,370 maunds to other provinces. In the last week of the period, 4,713 maunds were exported to the North-Western Provinces and Oudh, and 4,621 maunds to Bihar.

STATISTICAL DEPARTMENT,

The 7th December 1897.

M. FINUCANE,

Secy. to the Gort. of Bengal.

Statement showing the quantities of rice and other food-grains exported from Howe ah and Calcutta (Chitpur, Kidderpore Docks, and Port Trust Railway) by the East Indian Railway, from 1st January to 27th November 1897.

STATION TO WHI	існ	Total from 1st January to 30th June 1897.	Total from 1st to 31st July 1897.	Total from 1st to 28th August 1897.	August to 25th Septem-	Total from 26th Septem- ber to 30thOcto- ber 1897.	6th November	Week ending 13th Novem- ber 1897.	Week ending 20th Novem- ber 1897.	Week ending 27th Novem- ber 1897
* 1		2	3	4	5	6	7	8	9	10
BENGAL.										
Hooghly.										1
		Mds.	Mds.	Mds.	Mds. 339	Mds.	Mds.	Mds.	Mds.	Mds.
0 0		2,122								
Tarakeswar Chandernagore	•••	109								
Dasghora	:::	2								
Pandua	•••	14							***	
Bainchi		17								
Bhadreswar	**	664								
Total		2,928	411		339		2.00	(···)	270	
Burdwan.										
Memari		163							•••	
Dl		4	Surget Links				40	olo	***	
Burdwan		1,094	0.070	389	232	102	101	216 1,546	813	225
	••••	9,653	3,972	1,572	2,143	1,168		1,010	•	142
Q1 1	"	103	, digital	an sign	ens Commer	5	914. Jun 1) Peiro	1.57	260
T. T. Line		349	t out that	politications.	1 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	udif oil si	antin the	11.		7
		6.13 Table	99	61						
Asansol	•••	<u> </u>	18	528		22				
Total	;:::	11,376	4,071	2,545	2,375	1,297	141	1,762	818	367
Birbhum.		0.66						4 m		400
Murarai		378								
T) 1		2	101	1,261	159	199		***		
Sainthia		1		103	143					
		683	***	•••		•••				
Ahmadpur		302								
Total		1,366	101	1,364	302	199				
Nadia.										
Mirpur		7,218	965	_						
		3,998	3,670	378						
Kushtia		17,613	2,841		347				•••	**
		5,275	2,202 1,001	*						***
1 11		6,407 9,349	10,244	924	1,973					
		3,819	349							
ve 1.11:		3,236	378		382					
		1,828								
Total .		58,743	21,650	1,302	2,702					
Jessore.	1									
		1,014	740		Alta Alta			1,193		
		2,478	12,788							
Total .		3,492	13,528			6		1,193		
Murshidabad.			10 T. C.	W 100000				a. There	10.	
	1	6,277	3,018	1,929	761	1				
		1,930	3,770	1,503	383	122				
		1,000	747	2,638						
			378	377						
	-			6,447	1,144	122				
Total .		8,207	7,913	15 4 4 7	1 144 1	199		***	***	SCHOOL STREET,

BENGAL	STATION TO WHIC CONSIGNED.	Total from 1st January to 30th June 1897.		Total from 1st to 28th August 1897.	Total from 29t August to 25th Septem- ber 1897		6th Novem-	Week ending 13th Novem- ber 1897.	Week ending 20th Novem- ber 1897.	Week ending 27th Novem ber 189
Contable 1	2	3	4	5	6	7	8	9	10	
Rejshabi. Mds. Mds. Mds. Mds. Mds. Mds. Mds. Mds. Atrai 2,083 923 2,947			-							1
Malanchi 1,443 529 352 15.05 Mda, Mda, Mda, Mda, Mda, Mctari Mda, Mda, Mda, Mda, Mda, Mctari Mda, Mda, Mda, Mda, Mda, Mda, Mctari Mda, Mda, Mda, Mda, Mda, Mda, Mda, Mda,										
Atrai Rainagar Netor Total 1,413 529 3,326 1,075 3,442 Dinajpur Dinajpur Rangpur Rangpur Rainggar 767 829 Rurjram 109 Lalmonir Hat 65 100 223 525 100 223 100 101 101 101 101 101 101 101 101 10		The second second		Mds.			Mds.	Mds.	Mds.	Mds.
Raninagar Netor	AZunt	No.	1	2.083		,			***	
Total 1,413 529 3,326 1,075 3,442			1	1,054						
Dinajpur 378 2,417 348 399	Nator			189	•••	1	1			
Dinajpur Standard Total	1,413	529	3,326	1,075	3,442		7			
Dinajpur	Dinajpur.	-				-				
Rangpur Saidpur 767	Dinajpur	. 373	2,417	343		900				*
Saidpur 767 829						000				
Kurigram	Kangpur.	767	820		Part of the second					
Lightonia Hait 55				the state of the state of	Grand Strange Co.					•••
Domer G85 100 223 525	Lalmonir Hât	55		4 400 100						
Mogal Hât	Vannie					525				
Total 2,759 929 343 525				1				•••		****
Total 2,759 929 343 525										
Dococh Behar 20,763 378 754 304 895	Total	2,759	929		242	505				
Darjeeling Dar		-	-			-				
Chilahati				.03		895				•••
Dam-Dim					074					
Mandalghat 400 300 203 100 101) Di						•••			
Haldibari				100						
Palpaiguri	Haldibari			339						
dal Bazar 2,809 223 100 101 <td< td=""><td>Damahai TIA4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	Damahai TIA4									
Belakoba 101 1,511 1,431 2,719 3,828 <td>4.1 D</td> <td>0.000</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	4.1 D	0.000								
Total Solution S	Belakoba									
Total 36,064 16,586 4,489 10,652 11,971 735	Chalsa Road Ghat								•••	
Darjeeling Dar	Total	36,064	16,586	4,439	10,652	11,971	-			
conada 522 2,038 215 102 875 252 1,166 418 267 iliguri 5,895 7,067 1,724 3,691 8,493 1,722 1,125 101 101 2611 2,631 349 1,172 1,858 873 766 518 148 267 1,630 480 1,225 101	Darjeeling.									121
Siliguri		522	2.038	915	100	022	0.00	1	12.	
Shoom								1,166		267
Parjeeling 2,931 4,684 1,914 2,140 3,105 867 1,630 480 1,030 383 225 152 104 101 16,335 23,837 5,718 9,951 18,696 5,034 5,566 1,621 415 101 10	hoom .	2,611		349						
Age			,							
Yabari				100	V. S. S. S.		1,015	525		
Gahanadi 386 473 305 101	vabari	in the state of the			A CONTRACTOR OF THE PERSON OF		1			
Total 16,335 23,837 5,718 9,951 18,696 5,034 5,566 1,621 415 Bogra. kelpur 2,855 2,118 1,268 1,358 aipur Hât 4,482 1,174 629 2,463 amalganj 2,072 100 408 919 123 111 389 iii 130 4,098 1,939 12,991 120 2,218 131 Total 9,539 7,490 4,244 17,731 120 2,341 242 389 Pabna. rajganj 6,295 760 1,146 345 Dacca. unshiganj 6,295 760 1,146 345 arayanganj 380	Tobanad!				Committee of the					
Bogra. kelpur 2,855 2,118 1,268 1,358	Total	16,335	23,837	5,718	9,951	18,696	5,034		-	-
kelpur 2,855 2,118 1,268 1,358	Boara		-	77 19	347				1,021	419
aipur Hât 4,482 1,174 629 2,463	kalnun		2,855	2,118	1,268	1.358			*	
Total	aipur Hât	10.10.0000	4,482	1,174	629			- 1	41 1 1	
Total	ili #	Carry Million Control Co			408		5, 1, 500			
Total 9,539 7,490 4,244 17,731 120 2,341 242 389 Pabna. rajganj 6,295 760 1,146 345 Dacca. unshiganj 380 1,591	Itanna					12,991	120	2 218	191	***
Pabna. rajganj 6,295 760 1,146 345 unshiganj acca arayanganj 131	m					-	_			
Pajganj 6,295 760 1,146 345			9,539	7,490	4,244	17,731		2,341	242	389
Dacca. unshiganj 1,591			and the					10 A 16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1/4/2	
unshiganj 380 1.591	ALL CARREST	6,295		760	1,146	345		•••		•
unshiganj 1,591				-	100				1,112	unidi.
arayanganj 380 131	unshiganj		1,591			200				
rayanganj 131	icca	380		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1000	1.4		1.138	Grant o
	irayanganj	15-11-			131				*** 131	Jan.s.
Total 380 1,591 131	Total	380	1.591		131			Your Law	118717	

STATION TO WHICH CONSIGNED.	Total from 1st January to 30th June 1897.	Total from 1st to 31st July 1897.	Total from 1st to 28th August 1897.	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 30th Oct. 1897.	Week ending 6th No- vember 1897.	Week ending 13th Novem- ber 1897.	Week ending 20th Novem- ber 1897.	Week ending 27th Novem- ber 1897
01 1	2	3	4	5	6	7	8	9	10
BENGAL-	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	
Faridpur.	mus.	Mds.	Mus.	Mus.	Mus,	Mus.	Mus.	arus.	Mds.
Pangsa	7,257	1,769	470	382	431				
Rajbari	7,571								
Goalundo	11,414	2,300	2,532	1,814		••••	•••		
Pachuria	1,374	377		2,986					
Total	27,616	4,446	3,002	5,182	431				30
Backergunge.								7000	
Jhalokati		1100-3117		0.000					200
				2,928					
Khulna. Phultala	360	541	754	Paid Hard	1000	Para la	1000	1. 1.	
\$7			200					***	
Khulna			200	103		- :::			
Total	* 360	541	954	103					
TOTAL OF BENGAL		1,08,056	38,414	-	56,053	6,030	10,862	2,176	1,292
TOTAL OF DENGAL		1,00,000	90,212			0,000		2,170	1,20
CHOTA NAG- PUR.		2							
Hazaribagh.					le e a d				E-William .
Giridih	16,434	5,681	1,116	107	402				
Manbhum.						1.3.00	783		
Purulia	2,972	3,602	1,466	1,450				230	101
Bulrampur	722	1,591		1,450	0.000				101
Barakar	156	482	371		***	- :::			
Pradhan Khanta	2,377	762	2,453	191					
Katrasgarh	101	***					***		
Anara	***		138	***	***	•••			
Adra Kalubathan			126						
Kalubathan			762		•••				
Total	6,328	6,437	5,316	1,641				230	10
Singhbhum.									
Chakradharpur	31								
Total	31								
TOTAL OF CHOTA NAGPUR	22,793	12,118	6,432	1,748	402		74.54	230	101
		,		-,,,,,	102	199,4			101
BIHAR.	a reg		10 pm		CongGE A				
Sonthal Parganas.	a memorina Terro di	-						1-4	
Barharwa	7,097	6,838	5,368			1	100.00	·	
Maharajpur Ghat	1,129								and the same
Pakour	3,011	1,890	6,465	::.					Carles.
Sahibganj Baidyanath	43,325 11,724	13,427 3,891	11,239 1,473	151			***		
Madhumm	2,045		1,077		38	80-11	200310	- •••	
Rajmahal	1,205	1,919	2,288		The manter of the state of the state of	***	California (Constitution)		
Tinpahar		1,888	2,296	:::	*	:::		2000	(e.g.,
Kotal Pakour		•••	1,527			537	100		- Electra
Mihijam		•••	381				9.0	74.1	2011, 1446-17
Jamtara	SAME TO SERVICE AND ADDRESS OF THE PARTY OF	•••	381						
Total	69,586	29,853	82,495	151	00	~~~	-	1/201/2010	the state of the
Total	00,000	20,000	04,400	101	38	***	***		***

STATION TO WHICH CONSIGNED.		Tots from Janua to 30 June 1897	1st from to 3 July	1st from 1st to 2 y Aug	1st 28th gust	Tota from 29 Augus to 25t Septen ber 189	th from 2 st September to ber to 30th O	6th m-	Week ending 6th November 1897.	Week ending 15th Novem- ber 1897.	ending 20th	en 2: No	Week ending 27th Novem ber 189	
1		2	8	4	4	5	6		7	8	9	1	.0	
BIHAR—c Purned Kissenganj		Mds		14 THE RES	s.	Mds.	Mds		Mds.	Mds.	Mds.	M	ds.	
Katihar Jun	ction	1 -,	9 3	71 .		***	1	- 1		•••				
Manihari Sonali		0.4	1 7	6	.		14				•••		•	
Kasba	::	11/7			70									
Other places			2,75			***			•••	***				
Total		5,66	5 4,61	9	70		-	- -				•••		
D1			-	-			14	1	· · ·					
Bhagalpur. Nathnagar Colgong Pirpainti		25,46	6 1.51	1 1,50	07								_	
Ghoga		0.040			-	•••								
Bhagalpur		66,546	19,76	,	13	1,141	1,591				***			
Sultanganj Raghupur	••	3,770	1	38	80							***		
Pertabganj		374	,	:::		•••		1						
Bhaptiahi			2,26	2	1									
Total		1,18,060	31,12	2 14,12	6	1,141		-					_	
Monghyr.						1,111	1,591	_				***		
Bariarpur	٠	382												
Khagaria		9,517	3,386		5		386							
Jamalpur Lakhisarai	•••	1,521 $24,529$	1,120	-,			380			•••	•••	•••		
Monghyr		6,448	2,478 2,639			1,626 $1,124$	1,522		379	:::				
Garhara		36,145	9,848	7,618		492	380		379					
Tegra Jamui	•••	9,825 4,203	6,940				760						- 1	
Begamsarai	***	371	1	1,134	1							•••		
Burhi Simultola	•••	8,031	8,768		1	975	•••			101				
Nawadi	•••	2,657 371	162	348	3					101	•••	***		
Kajra		752	2,256	1,503	3		· · · ·					•••		
Total		99,752	32,587	-	-									
				35,828		4,217	3,428		758	101		***		
Patna. Masaurhi												8. 5.25	-	
Khushrupur		375 23,700	12,553	6,822		2,381					'			
barh		18,905	9,109	6,409	and the state of t	3,025	4.100		200			10		
Patna Bankipore	10.1	1,97,224	83,104	48,290	38	3,998	4,166 53,046	9	380	376 5,216	3,462	4,239		
igha Ghat		3,372 49,331	4,920 18,339	2,647 10,657		1,975 9,596	4,570		759		0,202	4,209		
adispur		752					14,078		,900	376	380			
Bihta Mokameh		3,602 23,469	4,211 14,484	10,244	DISTRICT TO STATE OF	,566	2,332		379			1		
Dinapur		7,823	1,128	11,363 380		,664	3,048		755	385	822			
Buktiarpur Patua		5,698	12,176	15,988	8	,394	1,172		385	•••	•••	•••		
		3,817	1,896	3,037	8	,473	1,902			876				
Total	8	,38,068	1,61,920	1,15,837	75	,072	84,314	14,	099 6	729	4,664	4,239		
Gaya,						-		-						
aya ahanabad		66,331	17,080	28,726		,426	25,922	5,8	352 1,	141		382		
ela .	:	2,621 373	5,723	8,705	6	,153	2,315		1 .					
ukdumpur		371		380			374					•••		
Total		69,696	22,803	37,811	27	579		-			- -			
	-						28,611	5,8	52 1,	141		382		
Shahabad.		0.00			1000	7					1000			
achungthan		8,091 11,340	763 1,508	4,938		896	1,541 3,053			1				
rrah		23,071	15,691	16,933	5,0	052 1	1,939	1,9	08 8	80 .		. 1975	Mary Control	
umraon		27,935	18,157	24,676	23,	304 2	3,685	1,1	and the second of	72	756 .			
ihia	::	7,910	1,510	3,022 764	1.	268 525	3,457	3	00					
	-											-		
Total		78,347	37,629	50,333	34,0	145 4	4,050	3,4	34 3,0	02	756			

STATION TO WHICH CONSIGNED.	Total from 1st January to 30th June 1897.	1st to	to 28th August	to 25th	Total from 26th Septem- ber to 80th Oct. 1897.	Week ending 6th Nov- ember 1897.	Week ending 13th Nov- ember 1897.	Week ending 20th Novem- ber 1897.	Week ending 27th Novem ber 189
197 1	2	8	4	5	6	7	8	9	10
BIHAR-concld.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Darbhanga.	- 0.0	075	0.700	377					
Bakri	5,642 4,144	375 370	3,799 378	377					
Camaria Samastipur	80,779	12,822	12,511	864	3,387	384	377	387	
Dalsingh Sarai	39,098	14,717	14,115	1,515	2,287	377	379	380	•••
0	2,25,091	62,524	31,141 1,540	2,671	1,154				
Kamtaul	1,857 4,543	3,485	381					•••	
Vaini hanjharpur	1,508	3,389	1,521	764			***		
	3,62,662	98,773	65,386	6,191	6,828	761	756	767	
							outros	-	-
Muzaffarpur.	759	377							
anakpur Road	1,874	757	1,511		4				
arai airagnia	2,495						***		
Canti	1,512						0 ho		
latipur	1,398		374			2.8.2			
)holi	1,893	42,034	29,249	4,169	5,332	764	748		1
Huzaffarpur	2,11,741 6,996	2,263	3,036	376	0,002		***		
itamarhi	57,756	21,033	4,229	370	***		***		
Iajipur	22,362	7,659	12,585	4,187	3.052	766			
araul	1,499	1,890	1,889						
Total	3,10,285	76,013	52,873	9,102	8,384	1,530	748		-
Champaran.							1000		
Maesi	11,951		377 380	380					
Segowli	9,694	1,127							
lindara	22,495 1,78,145	22,636	16,418						-
Bettiah Bara	42,715	6,125	2,273	-					
Motihari	86,241	12,445	3,003				***		
Pipra	7,051	1,107	377						
Total	3,58,292	43,440	22,828	380			44.		
Saran.					1. 1/2. 1/2. 1/2.		20,70,700,700		
Dighwara	1,887	6,097	7,298	5,348	3,415				
Ekma	12,775	9,428	8,688	1,895	3,448		1 7710	764 386	
Chapra	1,28,760	26,967	25,154	14,456		4,903	1,519		
Goldenganj	373 34,771	9,041	4,887	764		10.32			1
Daronda Savan	1,67,819	46,099	24,553	19,815	3,421	175 B	379	1,152	
Savan Revelganj	1,11,822	33,297	26,739	10,272	3,772	4,186	749		
Mairwa	747					383			
Sonpur					380	-	***	0.000	-
Total	4,58,954	1,30,929	97,319	52,550	1000	9,472	2,647	-	
TOTAL OF BIHAR	22,69,317	6,69,688	5,25,206	2,10,428	2,00,539	35,406	15,174	8,489	4,6
TOTAL OF PRO-	627/4		248,53		- 11	10.77.76.			
THE LIEUTEN-	24,90,580	7,89,862	5,70,082	2,55,097	2,56,994	41,436	26,036	10,895	6,0
ASSAM.			V 100		98X				
Cachar.	847	Andrews	***		110	0.00	100 m		
Silchar Sealtik		1,006			802				
Total	347	1,006			302	222			
Nowgong.	63-65	arting to	Extend 48	0.0	1000	0.040		32/2	d seems
No.	2012	841,1 ·	380	1		S21.23	2000		
	-	-			-		-	-	6.
Total of Assam	. 347	1,006	380		302	***	***	***	BE 1985

STATION TO WH CONSIGNED.	ICH Janua to 30 June 1897	from 1s to 31s July	st from 1st t to 28th August		ber to	th ending 6th	13th	Week ending 20th Novem- ber 1897.	endin
01 1	2	8	4	5	6	7	8	9	10
NORTH-WES ERN PROVINC AND OUDH	ES	Mds.	Mds.	Mds.	Mds	Mds.	Mds	Mds.	Mds.
Tari Ghat Ghazipur	25,02 36 20,52	5 3 3,422 757	1,907 1,530 3,047	3,035 1,141 7,976 754	8,049 1,537 13,291 382	385	 1,155		
Total .	45,918	11,772	6,484	12,906	23,259	2,686	1,155		
Benares District					figure 1 vi				
Shiupur Zamania Sakaldiha	377 2,270 38,357 4,160 3,405 nt 1,52,254	1,897 3,445	2,657 378 25,860	375 2,657 12,648	381 760 7.896 752 377 37,828	4,951	3,811	1,509	762
Total	2,00,823	32,602	28,395	15,680	47,994	4.951	3,811	1,509	762
Gorakhpur Distric Bhagalpur Gogra Chauri Chaura Tahsil Deoria Gorakhpur Sahjanwa Bhatpur	3,375 3,753 10,612 7,987 5,340	745 2,288 4,567 4,535	 1,131 3,782 3,388	::					
Total	61,177					4			
Access to the second se	01,177	12,135	8,301						
Basti District. Khalilabad Basti Uska Bazar	1 1111		:::			:::	:::	:::	: 1
Total	16,708								
Gonda District. Gonda Other places	19,514 9,044		761						
Total	28,558								
Baraich District.			761	***					
Naupara Baraich	1,895 4,894								4
Total	6,789				· · · · ·				-
Mirzapur District. Ahraura Road Chunar Mirzapur Sainpura	22,227 4,929 84,654 8,045	4,501 1,127 7,960 748	2,667 370 17,413 380	125 708 	755 1,159 7,578 769	390 399 387			 i76
Total	1,14,855	14,336	20,830	893	0,261				150
Allahabad District.	7,163	1,514	1,147	893		1,176			
danwari	2,631	850						1000	
lija Road	35,884 1,18,409	2,276 6,834	3,061 5,726	763	761				
Vahwai	6,053	1,528	1,919	***		:::			
Bharwari	1,94,987 22,940		20,491 8 778	ATTENDED TO A STATE OF THE PARTY OF THE PART		3,816		374	•
irathu	15,916	877					1	10,000 10,000,000	••
hiurajpur ther places	12,433	754	1,555	***				1.150	••
Total	4,17,162	24,708 3	4,677 4	,559 14	,495 8	,816	761 8	74	

	to 30th June 1897.	from 1st to 31st July 1897.	from 1st to 28th August 1897.	August to 25th	from 26th Septem- ber to 30th Oct. 1897.	6th November 1897.	ending 13th Novem- ber 1897.	ending 20th Novem- ber 1897.	Week ending 27th Novem- ber 1897
1	2	8	4	- 5	6	7	8	9	10
NORTH-WEST- ERN PROVINCES AND OUDH— contd.	Mds.	Mds.	Mds.	Mds.	Mds.	.Mds.	Mds.	Mds.	Mds.
Fatchpur District.									
Bahrampur Khaga Bindki	1,889 4,542 59,519	381	2,279	764	:::	:: ::	::		
Fatehpur	773	103	1,143						
Total	66,728	4,277	3,422	764		-			
Campore District.									
Cawnpore City	3,78,602	6,044	15,333	1,515	6,135	386		2,274	1,500
Etawah District.									
Phaphund	10,999								
Bharthna Etawah	766 46,658	1,148	370		381				
Jasawantnagar	9,451			761		•••	•••		
Total	67,874	1,148	370	761	381				
Farukhabad Dis- trict.									
Fatehgarh	373								
Farukhabad	753 381	•••							
Kanauj									
Total	1,507		ē						
Mainpuri District.				7					-
Kaurara Shakohabad	6,443 6,497	751	- ::	:::	:::		***	***	
Total	12,940	751							
Agra District.									
Firozabad Agra Barhan	24,396 1,09,626 260	377 11,341	379 5,269	8,398	772 16,939	3,085	3,808	877 755	385
Total	1,34,282	11,718	5,648	8,398	17,711	3,085	3,808	1,132	885
Sitapur District.									
Sitapur	12,438	378	· · ·			•••	***		
Muttra District.						Andrew Commence Co			
Kosi Muttra Brindaban	1,564 11,371 696	758	758	382 	1,155	1,524 385	w.		
Total	13,631	758	758	382	1,155	1,909	11.000		100000
Alighur District.						Program Ta			MAT WITH
Harduaganj	755	ers modern							
Sikandra Rao	753			1,153	12,285				
Hattrass	82,104 19,579	9,427 2,268	1,784 2,667	1,515	1,914	1,511 761	2,268 1,902	1,503 751	
Total	1,03,191	11,695	4,451	2,668	14,199	2,272	4,170	2,254	

STATION TO WHICH CONSIGNED.	Total from 1st January to 30th June 1897.	Total from 1st to 31st July 1897.	Total from 1st to 28th August 1897.	August to 25th	Total from 26th Septem- ber to 30th Oct 1897.	Week ending 6th Novem- ber 1897.	Week ending 13th Novem- ber 1897	Week ending 20th Novem- ber 1897.	Week ending 27th Novem- ber 1897
1	2	3	4	5	6	7	8	9	10
NORTH-WEST- ERN PROVINCES AND OUDH— contd.	Mds.	Мds.	Mds.	Mds.	Mds.	Mas.	Mds	Mds.	Mds.
Bulandshahar Dis- trict.									
Chola Secundrabad Khurja Dibai	1,504 5,289 30,346 4,913	::: :::	381 752 2,264 754	756 2,661			379 	372 753	 875
Total	42,052		4,151	3,417			379	1,125	875
Muzaffarnagar Dis- trict.									
Muzaffarnagar	757								
Meerut District.									10 M
Ghaziabad Meerut	5,135 42,541	374 1,150	765	383	376	381	767 879	759	384
Total	47,676	1,524	765	383	376	381	1,146	759	384
Banda District.									
Badansa Banda Bargarh Manikpur Kurwi Majhgawan	4,530 37,553 11,332 7,919 43,218 376	3,502 784 1,142	375 4,934 391 1,178 1,129	753	1,916	762 384	374		
Total	1,04,928	5,728	8,007	758	1,916	1,146	874		
Moradabad District.									1
Khanth Moradabad Chundowsi	1,885 11,699 21,796	=	381				:::		•••
Total	35,380		381						
Azimgarh District.									
Shahganj	27,277	1,509	2,675	36.B	1, 36				
Bareilly District. Nawabganj	754								
Aonla Bareilly	47 074	2,311	1,520	1,905	1,146				
Total	55,655	2,311	1,520	1,905	1,146				
Jaunpur District.					,				
Jaunpur	65,666	6,855	5,859	1,531	6,832	380	756	•••	381
Shajehanpur Dis- trict.		1	W						
Shajehanpur Tilhar Anjhi	16,026 11,030	380 380	762 881		383	 	::		::
Rosa Junction		760	1,143		383			<i>a</i>	91.

Station to which consigned.	Total from 1st January to 30th June 1897.	Total from 1st to 31st July 1897.	Total from 1st to 28th August 1897.	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 30th Oct. 1897.	Week ending 6th Novem- ber 1897.	Week ending 13th Novem- ber 1897	Week ending 20th Novem- ber 1897.	Week ending 27th Novem. ber 1897
1	2	8	4	5	6	7	8	9	10
NORTH-WEST- ERN PROVINCES AND OUDH— contd.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Eta District.								100000000000000000000000000000000000000	100
Jaleswar Road Kashganj	386 4,146		381		:::		:		-
Total	4,532		381						
Luck now District.					6.000				
Lucknow Alamuagar Kakeri Malihabad	1,02,370 88,257 8,020 754	3,044 758 	4,186 765	7,240 8,017	1,916 755 	2,284 877 	771	1,138 879 	
Total	1,44,401	3,802	4,951	10,387	2,671	2,661	771	1,517	
Pilibhit District.									
Pilibhit	1,516								
Saharanpus District.	74.54						1		
Rurki Saharanpur	373 15,033		:	381		:::			
Total	15,406			381					
Fyzabad District.									
Sahwal	783								*
Radhauli Fyzabad	20,772 $72,070$	3.787	7,621	1,138	2,662	381	2,313		750
Ajodhya	10,993 3,788	374							-
Gosainganj	1,08,406	4,161	7,621	1,138	2,662	381	2,313		750
	1,00,100		7,021		2,002				-
Sultanpur District.	0.700						1		
Akbarpur	9,786								
Bara Banki District.									
Pahramghat	7,166 2,275	758			•••				
Duryabad Bara Banki	14,417	769						381	
Safdarganj	52,935	758				383	*		
Total	76,793	2,285	-			383		381	
Hardai District.									
Balamau	755			***			-		
Hardai	21,328 14,899	374	381	376	•••				
Baghauli	5,667						***		
Total	42,649	374	381	376	(1)	···			
Bijnor District.		17th						1	
Dhampur	8,692						***		
Nagina	9,081	1,131	•••						
Najibabad	10,568 2,618	709	W.I.		3		11111		
To de l	30,959			-	-	The second			
Total	50,000	1,840			••	···			
Unao			381		•••				

STATION TO WHICH CONSIGNED.	Total from 1st January to 30th June 1897.	Total from 1st to 31st July 1897.	Total from 1st to 28th August 1897.	from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 30th Oct. 1897.	6th	Week ending 13th Novem- ber 1897.	Week ending 20th Novem- ber 1897.	Week ending 27th November 1897
1	2	3	4	5	6	7	8	9	10
NORTH-WEST- ERN PROVINCES AND OUDH- concld.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Jhansi District.	6,425	1,532	375	383	1,919	1,140			1,00
Lolitpur District.	4,506	7,56	381						
Kheri District.							7		
Lakshmipur	3,389								
Hamirpur District.									
Mahoba	16,262	1,898	2,262	1,145	1,548	379	380		
Dehra Dun District.							,		
llardwar	378								
Jalaun District.									
Ait	1,117 1,873					·•·	:::	:::	
Total	2,990								
Garhwal District.						COMMENT WARRANT		Transmitt of Principle of Street	
Haldwani	2,264								
Other places	72,531	1,898	4,579	365			•		
NORTH-WEST- ERN PROVINCER AND OUDH.	26,53,276	1 69,550	1,75,248	70,690	1,56,174	27,132	19,824	11,325	4,713
PANJAB.						,			
Amritsur District.	7.40			000					
Amritsur	740			382					
Delhi District.				01.001	14.100	4,241	8,383	5,320	3,095
	2,31,956	11,835	14,105	24,694	14,123				0,000
Jullundur District.				000					
Jullundur City	8			386					
Umballa District.									
Umballa City	17,868	140							
Gurgaon District.									
Faraknagar Gurgaon	378 1,890						828	788	775
Rewari	64,441	1,133	3,773	2,249	4,352		828	788	775
Total	66,709	1,133	3,773	2,249	4,352				
Rawalpindi District. Rawalpindi			1,873	1,125				2,664	
Other places	96,050	1,901	13,782	1,549	5,744		1,136	2,001	
TOTAL OF THE PANJAE.	4,13,321	14,509	33,533	20,385	24,219	4,241	10,847	8,772	3,870

STATION TO WHICH CONSIGNED.	Total from 1st January to 30th June 1897.	to 31st	to 28th	to 25th	Total rom 26th Septem- ber to 30th Oct. 1897.	Week ending 6th Novem- ber 1897.	Week ending 13th Novem- ber 1897.	Week ending 20th Novem- ber 1897.	Week ending 27th Novem- ber 1897
1	2	3	4	5	6	7	8	9	10
CENTRAL PRO-	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Sehora Road Katni Jubbalpur Peparia Kareli Nagpur Other places	20,160 66,879 1,95,098 41,578 37,346 78,979 5,80,702	6,077 10,590 6,835 2,361 9,146 21,248 1,16,171	5,691 8,014 22,379 2,649 3,829 33,464 1,19,291	2,284 3,411 3,788 1,141 1,908 10,329 42,248	381 6,143 7,674 781 11,671 39,834	769 376 1,538	384 4,974 8,036	3,093 5,775 7,070	1,137 1,143
Total	10,20,742	1,72,428	1,95,317	65,109	66,484	2,683	8,391	15,938	2,280
RAJPUTANA AND CENTRAL INDIA.									
Dholpur Ajmere Sutna	759 1,06,401	753 11,429	381 14,810	379 2,640		770		874	379
Mhow Ulwar Indore	2,838 5,713 1,506	377	:::	380		760			
Jeypur Bawal Harphulpur Other places	10 716	380	380 1,528	760 378	:::	:::	551		
Total	1 45 000		17,099	4,545	1,526	1,530	551	374	379
Hyderabad	1,150								
BERAR. Badnera Dhamangaon Malkapur Khamgaon	2;418	1,062 385	763	402 382 379 2,678		::	379 750		
Akola Amraoti Shegaon	. 15,258	3,824	8,378	12,857	3,418	765	753	370	
Total	-				-		- 1,002		
Bombay		1	3,197		1,239	378		-	239
Unspecified places GRAND TOTAL	1,12,220	$\begin{array}{c} 2,640 \\ \hline 11,75,942 \end{array}$			5,13,46			50,825	17,495
ABSTRACT. Total of Bengal ,,, Bihar ,,, Chota Na	. 22,69,31		5,25,200	2,10,42	8 2,00,53	35,40			4,621
Total of the North	34	1			30:		19,824	11,82	5 4,714
Western Pro- vinces and Oudh Total of the Panja Total of Rajputan	b 4,13,32		33,538	30,38	5 24,21	9 4,24	1 10,347	8,77	
and Central Ind Total of Central	ia.		1,95,317		9 66,48	4 2,68	8,39	15,93	
Provinces. Total of Hyderaba Total of Berar Total of Bombay.	. 25,15	€ 7,25	1,14	3			0 1,882	:::	000
Total of Unspecific places. Add exports from 1 to 30th Janua 1897, the deta whereof are n	m 87,80 st ry dls	0 2,64			1,23	9 37			
grand Total	69,50,60	05 11,75,94	2 10,08,91	3 4,45,18	5,13,40	78,98	67,49	3 50,82	5 17,49

EXPORTS OF FOOD-GRAINS BY THE EASTERN BENGAL STATE RAILWAY.

No. 3307 Statistics — The following statement shows the quantity of rice and other food-grains exported by the Eastern Bengal State Railway from Sealdah and Calcutta during the period from 1st January to 20th November 1897, both days inclusive, to have been 13,40,831 maunds. The destination of 13,36,549 maunds is specified. Of this quantity, 10,46,814 maunds were carried to stations in Bengal Proper, and 94,438 maunds to Bihar and Chota Nagpur, 45,911 maunds to the North-Western Provinces and Oudh, 1,41,453 maunds to Assam, and the rest (7,933 maunds) to other provinces.

STATISTICAL DEPARTMENT,

M. FINUCANE,

The 7th December 1897.

Secretary to the Gort. of Bengal.

Statement showing the quantities of rice and other food-grains erported from Sealdah and Calcutta (Port Trust Railway, Chitpur and Kidderpore Docks), by the Eastern Bengal State Railway, from 1st January to 20th November 1897.

STATION TO W		Total from 1st January to 26th June 1897.	Total from 27th June to 31st July 1897.	Total from 1st to 28th August 1897.	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 30th October 1897.	Week ending 6th Novem- ber 1897.	Week ending 13th Novem- ber 1897.	Week ending 20th Novem- ber 1897
1		2	3	4	5	6	7	8	9
BENGA 24-Parga	nas.	Mdr.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Barrackpore Shamnagar		, t	374	•••	•••				
Kankinara		900			•••	1	•••		
Naihati	• • •		182		20	1	***		
Kanchrapara Buttapukur	•••		24	4	2				•••
Gobardanga		1 701	359	100	***	16			•••
Akra Junction				190	252	613		141	
Muslandpur		0	4	6		9			
Mugra Hât	• • •	4					***		
Guma Budge-Budge	***						***		• • • •
Dogachhia	•••	0							***
Habra			•••		•••				
Baruipur		***			5			•••	
m-4-1		0.004					***	•••	,
Total Nadia. Chakdaha	•••	2,934	943	212	279	639	***	141	
Ranaghat	•••	97 785	131	142		4	18	•••	-
Aranghata		45		81	6	249	5		•••
Bagula		17,323	3,058	4	17		•••		
Kishanganj	***	3,781	1,711	971	302			4	
Banpur Ramnagar	•••	2,874	148	126		6			• • • •
Jairampur	•••	2,325	729 1,072	568 560	109	9	10	2	***
Chuadanga		17,306	5,264	1,117	168 200	105		8	
Munshiganj	•••	6,447	1,509	69	9	165 12	30	4	31
Alamdanga Halsa	•••	35,668	11,839	2,523	18	50		8	•••
Poradaha	•••	2,339 2,340	483		503	193	11	0	11
Jagati	• • • •	2,853	245 905	15 21				2	
Kushtia	,	47,273	19,967	1,582	3,368	1 100	5		2
Kumarkhali		20,440	18,740	774	2,504	1,198 2,496	120 25	312	385
Koksa Mirpur	• • •	6,567	3,583	637	234	643		26	20
Bhairamara	***	20,759 29,622	2,519	148	15	61			
Damukdia	• • • • • • • • • • • • • • • • • • • •	7,107	2,962 13,189	3,425		168			•••
Gangnapur		32	20	61	908	247	6	***	76
Madanpur Sibnibash	•••	9	88		28	:::	21	30	
Sibnibash						39	"	***	48
Total Jessore.		2,26,600	88,192	12,838	8,402	5,540	257	396	577
Chandpara		150	18	15					(1) The state of t
Bangaon		1,667	213	268	358	554			***
Jopalnagar		521	69	129	240	235	21 2	30	36 44
Benapol Nabharan		296	268	69	26	44	"	4	44
hikargacha	:::	7,048	227	129	40	36		19	
essore		6,649	1,685 3,482	1,004	812	502	36	19	86
Rupdia	•••	58	59	3	418	254	60	42	67
Singia Naral		16,316	7,275	40	55	76	277	32	5
Narai Binodpur	•••	258							
Nohatta		1,056 328	110						
Other places		2,529	250	2	4	10		4	
Total		37,510	13,733	2,676	1,461	1,715	397	154	238

BENGAL_contd. Mds. Mds.	STATION TO WHI CONSIGNED.	СН	Total from 1st January to 26th June 1897.	Total from 27th June to 31st July 1897.	Total from 1st to 28th August 1897.	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 30th October 1897.	Week ending 6th Novem- ber 1897	Week ending 13th Novem- ber 1897	Week ending 20th Novem- ber 1897.
BENGAL—contd.	1		2	3	4	5	- 6	7	8	9
Fakir Hât Nawapara 1,535 176 179 180 180 180 180 180 180 180 180 180 180	BENGAL—con	td.								7 7 1
Nawapara	Khulna.		Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Raijehahi.	Nawapara Phultala Daulatpur Khulna Bagir Hât	::	1,535 346 148 3,526 15	876 119 20 /5,343 18	51 180 30 419	26 75 435 	118 44 22 125	29	10	 6 20
Malanchi	Total		5,578	6,376	700	546	315	29	10	26
Gopalpur	Rujshahi.					2				et sterage d
Parbatipur	Gopalpur Nator Attrai Raninagar Alipur Rampur Boalia Sara Charghat		73 498 37 108 14,912 1,348 493	260 1,873 982 304 3,108 3,594 301 448	1,294 4,434 185 1,862	2,363 1,380 40 3	931 2,055 170 141	 		2 4 4
Parbatipur	Total		18,972	12,996	7,879	4,328	3,667	10		6
Kaugaon 6 883 400 </td <td>Dinajpur.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>,</td> <td></td>	Dinajpur.								,	
Belakoba 632 150 389	Kaugaon Charkai Phulbari Raiganj Dinajpur Kaliaganj		192 82 1 1,007	883 24 232 3,778 140	400 32 97 2,787	124	 20 772	2 2	88	20 2
Haldibari 24,726 7,041 3,081 14,029 18,081 148 284 36 Jalpaiguri 25,961 13,032 2,609 5,580 4,814 Ramshai Hât 9,716 5 406 378 40 Chalsa Road Ghât 1,220 203 1,401 246 Malbazar 1,981 165 220 Mandal Ghât 713 520 235 990 100 Total 65,293 21,213 6,625 22,692 25,560 248 284 36 Darjeeling. Siliguri 5,857 887 41 1,644 1,227 210 1 Kurseong 4,097 14 6 412 5 9 14 Kurseong 4,465 1,175 713 651 1,647 9 14 Ghum 4,465 1,175 713 651 1,647 164 Darjeeling 3,184 1,386 1,074 552 1,680 20 20 Tindaria	Belakoba Dam-Dim	17000	171							
Darjeeling. Siliguri 5,857 887 41 1,644 1,227 210 1 Kurseong 4,097 14 6 412 5 9 14 Sonada 1,056 410 1,040 150 Ghum 4,465 1,175 713 651 1,647 164 Darjeeling 3,184 1,386 1,074 552 1,680 20 20 Mahanadi 100 Rangtang 130	Haldibari Jalpaiguri Ramshai Hât Chalsa Road Ghât Malbazar Deomoni	::	24,726 25,961 9,716 1,220 1,981 103	7,041 13,032 5	3,081 2,609 400 203	14,029 5,580 378 1,401 	18,081 4,814 40 246 220	148	284	36
Siliguri 5,857 887 41 1,644 1,227 210 9 14 Kurseong 4,097 14 6 412 5 9 14 Sonada 1,056 410 1,040 150 Ghum 4,465 1,175 713 651 1,647 164 Darjeeling 3,184 1,386 1,074 552 1,680 20 20 Mahanadi 100 Rangtang 130			65,293	21,213	6,625	22,692	25,560	248	284	36
100	Siliguri Kurseong Sonada Ghum Darjeeling Mahanadi Tindaria		4,097 1,056 4,465 3,184 	14 1,175 1,386 	6 713 1,074 	1,644 412 410 651 552 1	1,227 5 1,040 1,647 1,680	150 20	164 20	14
			1		-		5.729	380	193	15

STATION TO WHICE CONSIGNED.	CH -	Total from 1st January to 26th June 1897.	Total from 27th June to 31st July 1897.	Total from 1st to 28th August 1897.	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 30th October 1897.	Week ending 6th Novem- ber 1897.	Week ending 13th Novem- ber 1897.	Week ending 20th Novem- ber 1897.
1		2	3	4	5	6	7	8	-9
BENGAL-con	td.	1/2-	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Rangpur, Daroani		Mds.	237	305	100				***
Rangpur		1,337	1,458	634	803	739	85	70	81
Kaunia		234		12	277	54	20	•••	•••
Badarganj		24	0.070	38	20 658	48 633	•••	52	***
Saidpur		1,495	2,373 505	1,450 868	€63	745	14	126	41
Nilphamari Domar		236 8,097	5,191	1,359	7,691	15,197	1,536	103	
Pista		392	•••						
Lalmonir Hât		453		6					
Magal Hât		200		356	56	62		0	***
Kuigram		964	55	127 26	130	112 69	2	8	90
Jatrapur	•••	426 680	34 29	81	520	193	***	4	
Porabari Madargani	•••	4		20	91	2,595		*	
Madarganj Kamarjani		1,388	36	35	242	128	64		
Chilmari		248	70	20	85	42			
Rowmari		133		21	26	90	34		75
Shampur		100		•••	5		***	•••	•••
Total		16,411	9,988	5,358	11,816	20,677	1,755	363	290
Bogra.			100	150	200				
Panchbibi Jaipur Hât	**		1,493	583	994	1,871		1	14
Jamerbari		1,859	229	416	882	823	8	140	
Sultanpur		170	953	4,148	2,769	5,375	20	294	30
Akkelpur		390	1,117	1,665	501	1,810	***	20	
Hili		105	987	835	213 120	204 430	16 671	40	(
Jamalganj	•••	507	1,274	722			1 10 000 10 10 10 10 10 10 10 10 10 10 1		
Tilakpur Nakhila			108		37	90		20	
Total		3,047	6,261	8,019	5,716	10,603	715	514	50
Pabna.		1,263	201	300	801	170			
Nagarbari Banagram		85							
Belkuchi		3,996	1,154	192		1,024	10	20	
Serajganj		11,476	2,477	3,771	10,840	934	46	26	
Pabna	•••	4		5	8	38	•••		
Sthalchar	•••			12				***	
Bera	••••		***		_	***			
Total Cooch Behar.	•••	16,824	3,832	4,280	13,886	2,166	56	46	
Chaurh Hat	•••	1,476		960	100	167	101	78	
Torsa	•••	28,106		360		601	101		
Other places	•••	917				-			-
Total Dacca.	•••	30,499		360	-	768	101	78	1
Dorogram					17	_ 1			
Elashin		6	9	16				****	2
Narayanganj	•••	1,436	104	520 136				62	40
Dacca	•••	533 22	69 28	327					
Kadirpur Tarpasa	***	815	29		302				
Kamalaghat		13	CO. 18. M. LONG STATES AND STREET, 1987.						
Bahar		13			387				
Moynal		12	2			1			
Postagola		513			***		•••	•••	
Maniknagar	•••	2			2	31			
Aricha Sabhar	•••	•••	12	Refligible for the second section of the second sec	296			F90:5 D.1753-5055 M.M.5.2000-4	
Elachipur		***			200			1	
Bishnandi					20		***		1
Total	317	3,365	291	-	_		820	68	

STATION TO W			Total- from 27th June to 31st July 1897.	Total from 1st to 28th August 1897.	Total from 29t August to 25th Septem- ber 1897	ber to 30th	Week ending 6th Novem- ber 1897.	Week ending 13th Novem- ber 1897	
1		2	8	4	5	6	7	8	9
BENGAL—c Mymensing Gafargaon			Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Mymensingh Bhairab Bazar Bahadurabad	::	. 41	20	144	243 76	354 41		20 59	
Hargilachar Jagannathganj Subarnakhali Sadhuganj	:	336 1,186 2,559	121 25 264	22 63 102	94 32 165 171	204 40 924 73	52	20	
Total		5.040			2				
Faridpur		5,043	444	331	783	1,636	54	145	30
Doomasa Daulatdia Lallgolla		11,346 4,469	2,730	1,275	127 6,776	126 4,413	60		301
Pangsa Belgachi Rajbari		34,805 8,279 13,341	12,914 300 1,124	984 103 495	1,829 424 327	589 118 406	6	41	*
Pachuria Goalundo Faridpur		19,465 19,895 21	8,746 4,304	6,355 2,818 2	5,531 6,353 19	868 3,338 26	600	100	
Madaripur Haserkandi Nuria	:::	6 4	30	456	5 20 856	130			:: a)
Kartikpur Jobsa	···	61		14	558 86	43		2	
Total Backergunge.		1,11,692		12,502	22,911	10,060	673	187	301
Pirozpur Jhalakati Barisal	 	920 249	5	i,232 40	2,147 20	20 20	20	40	
Total Tippera.		1,169	5	1,272	2,167	44	20	40	
Azabpur Haziganj Comilla	:::	20	:::		120	2 20			
Chandpur Akhaura	:	130 8 7	1 8	240 18	132 203 9	97		4	
Nayanpur Brahmanbaria	:::	:::		::	9				
Total Noakhah.		165	9	258	477	125		4	5.
Noakhali Feni		471	::		1 3			:::	20
Total Chittagong.		471			4				20
Chittagong Burdwan.		54	284	345	613	226	45	60	168
Sitarampur Rasulpur		3		412					
Raniganj	•••	428	••						<u></u>
Total Birbhum.	•••	431		412					<u> </u>
Bolpur Sainthia		5 2	::						
Total		7							

	1	1						
STATION TO WHICH CONSIGNED.	Total from 1st January to 26th June 1897.	Total from 27th June to 31st July 1897.	Total from 1st to 28th August 1897.	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 30th October 1897.	Week ending 6th Novem- ber 1897	Week ending 13th Novem- ber 1897.	Week ending 20th Novem ber 1897.
1	2	3	4	5	6	7	8	9
BENGAL-concld.	1	1		1				
Murshidabad.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Azimganj Jiaganj	312 20	375		:::	:::			
Total	332	375		·				
Total of Bengal	5,66,344	2,03,967	70,166	1,06,550	91,417	5,059	2,766	1,839
CHOTA NAGPUR.								
Hazaribagh.	390	740						
Manbhum.	005	240						
Purulia Chandil	937	740	927	360			•••	
Katrasgarh	16							
Pradhan Khanta			740					
Total	963	740	1,667	360		***		
Singhbhum.	20				A security of			
Chakradharpur	20							
Total of Chota Nagpur	1,373	1,480	1,667	360				***
BIHAR.						4000000		
Sonthal Parganas.	370				. /-			
Deoghur Pakur	6		•••					
Rajmahal .		794						
Total	376	794				-		
Dhamlour	-			-				
Bhagalpur. Colgong	384							
Bhagalpur	370	4,100						
Total	754	4,100						
Monghyr.								-
Monghyr	370		370					-
Barowni	10					***		00
Khagaria	742	370	376				***	
Burhi	1.61	1,496	1,516					
Kajra Jamalpur	161	1,876	875	***	***			
Garhara		751	751	***	***			
Total	1,283	4,863	3,388	<u> </u>		T		
Patna.			7-2 15 7"					
Barh		753	1,128			and the second	The second	
Patna	1,050	8,988	2,828	1,110	370	***		
Diga Ghat	740	386					***	
Bakhtiarpur	377	771	382		•••		•••	
Mokameh	745	3,776	2,627	100	•••	***		
Khusrupur Bankipur	•••	2,655	375		***			
Diamon		371	751	370	370	•••		
Bihta	***	0/1		370				
Tetal	2,912	18,075	8,091	1,850	740			
Lotal						1 THE R. P. LEWIS CO., LANSING MICH. 400, 120, 120, 120, 120, 120, 120, 120, 1	***	***

		17	T -			and the same	-		
STATION TO WH CONSIGNED.	існ	Total from 1st January to 26th June 1897.	Total from 27th June to 31st July 1897.	Total from 1st to 28th August 1897.	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 30th October 1897.	Week ending 6th Novem- ber 1897.	Week ending 13th Novem- ber 1897.	Week endin 20th Novem ber 1897.
- 1		2	3	4	5	6	7	8	9
BIHAR—conce	ld.	Mds.	Mds.	Mds.	Mds	Mds.	Mds.	Mds.	Mds.
Barsoi	•••	****	••	370					,,,,
Sonali Kishanganj		720	1,466				•••		
Kasba		1		200			•••	10	• • •
Total		721	1-100	570					
Darbhanga.	•••	721	1,466	570			•••	10	
Samastipur	***	895	3,004	1,499					
Kamtaul	•••	370	0.855				• • • •		
Dalsingh Sarai	•••		3,755	2,632				•••	_···
Total		1,265	6,759	4,131					11.303
Shahabad. Buxar					1.000				
Arrah			1,120	385	1,852	•••	•••	•••	
Raghunathpur		370				***		•••	•••
Behea				370					
Dumraon				•••	370		•••		
Total Gaya.		370	1,120	755	2,222				
laya		370		11	*				
Muzaffarpur. Iajipur		740			-	-	-	-	
itamarhi	•••	370			***			•••	
luzaffarpur		2,628	2,281	380		***			•••
			375						***
araul			376	375		•••			
Total Champaran.		3,738	3,032	755				•••	
Settiah		370							***
Saran.	-	740			-				-
orrolmani		1,870	1,857	:::		***	***	•••	167 129
hapra		1,537	380	370				•••	
avan		2,960	1,480	740					
icrean	**	370	1,505 758]	****	•••			•••
		***	100			•••		•••	•••
Total		7,477	5,980	1,110	•••				***
Total of Bih NORTH-WES- TERN PROVIN		19,636	46,189	18,811	4,172	740		10	
CES AND OUDI	I.							,	
ildarnagar			1,121	1					
hazipur		5							
arighat			370				•••		
Benares.		5	1,491						
enares		370							
amania						1,115	•••		
Total .	.	370				1,115			TROOT
auri Bazar		370							
hauri Chaura	::	370					Contraction of		
orakhpur				740		•••	•••	2000	
Total .	-	740		740					and the same of the same of
Total .		740	***	140	***		***		•••

STATION TO WH CONSIGNED.	псн	Total from 1st January to 26th June 1897.	Total from 27th June to 31st July 1897.	Total from 1st to 28th August 1897.	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 30th October 1897.	Week ending 6th Novem- ber 1897.	Week ending 13th Novem- ber 1897.	Week ending 20th Novem ber 1897.
1		2	3	4	-5	6	7	8	9
NORTH-WE TERN PROVI CES AND OUDH—cont	IN-	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Mirzapur. Mirzapur		385					•••		
Allahabad, Naini Junction Mija Road Allahabad		370 385 4,000			:::	***		***	:::
Total	•••	4,755							
Fattehpur. Bindki		385							
Cawnpur.		7,965	•			381			
Etawah.		2,383							
Mainpuri. Shakohabad Agra.		375		•••					
Firozabad	***	767							
Muttra.	•••	379			/				
Alighur. Hattrass Alighur		3,832 375	1,144	879	•••	:: :			
Total		4,207	1,144	379					
Meerut.		758		384					
Moradabad. Moradabad	•••	385				••	•••		
Bareilly. Faridpur Aonla Bareilly	:::	379 1,143		 	 81			:::	
Total		1,526		•	81				
Jaunpur. Jaunpur Jalalganj	:::	8 6	8					***	
Total Shahjehanpur.		14	3						
Shahjehanpur Tilhar		1,132 1,899 385	::	:::		:::	 		 ,
Total	***	3,416							

7	,					建设设施的		
STATION TO WHICH CONSIGNED.	Total from 1st January to 26th June 1897.	Total from 27th June to 31st July 1897.	Total from 1st to 28th August 1897.	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 30th October 1897.	ending 6th Novem-	Week ending 20th Novem- ber 1897.	Week ending 20th Novem- ber 1897.
1	2	3	4	5	6	7	8	9
NORTH-WES- TERN PROVIN- CES AND OUDH—concid. Lucknow.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Lucknow Alamnagar	1,901 3,401	374						
Total	5,302	374						
Bulandshahar. Khurja	750							(0)**
Fyzabad. Fyzabad Gosainganj	821 385		:::					
Total	1,206							
Hardai. Hardai Baghauli	373 748	***	:::	.:				
Total	1,121	•••				***		
Other places	2,255		370					
Total of the North- Western Provin- ces.	39,449	3,012	1,873	81	1,496			
Panjab	1,516		370	1,110	1,110	***	•••	
Central Provinces	456	1		2,986	***		• • • • • • • • • • • • • • • • • • • •	or.
Rajputana and Central India	384						•••	
ASSAM. Sylhet. Fenchugunge Sylhet Badarpur Balaganj Karimganj Chattak	151 1,294 6,237 5,052 890	503 51 106 369	₂	371 425	 590 146 2	2 1,080		 40
Other places	836	1,070	327		237			
Total	14,463	2,099	329	796	975	1,082		40
Cachar. Silchar Jetingamukh		5,922	261	1,348	4,220	349	56 93	
Total	13,847	5,922	261	1,348	4,220	349	149	40
Goalpara. Dhubri Goalpara	1 2010		330 366		464 1,968	88	160 130	8 140
Total	- 2010	_	696	3,016	2,432	88	290	148

								k 2000
STATION TO WHICH CONSIGNED.	Total from 1st January to 26th June 1897.	Total from 27th June to 31st July 1897.	Total from 1st to 28th August 1897.	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 30th October 1897.	Week ending 6th Novem- ber 1897	Week ending 13th Novem ber 1897	Week ending 20th Novem- ber 1897.
1	2	3	4	5	6	7	8	9
ASSAM—concld. Kamrup.	Mds.	Mds.	Mds. 2,876	Mds.	Mds.	Mds.	Mds.	Mds.
Darrang. Tejpur Mangaldai Bishunath	257 18 51	111 160	152	411 1 410	259 56	3	4	:::
Sibsagar. Nigriting Disangmukh Dekhumukh Kokilamukh Other places	1,826 1,676 3,986 557 1,576	437 609 372 701	152 190 697 103 10	13 357 555 84	129 223 630 286 142	40 20 82 60	20 93 97 2	72 25 130
Total	9,621	2,119	1,000	1,009	1,410	202	212	227
Lakhimpur. Dibrugarh Palasbari	14,366	875 20	1,887	4,020 103	3,966	1,650	1,500	1,820
Total	14,368	895	1,887	4,123	3,972	1,650	1,500	1,820
Nowgong. Silghat	558			61	507			
Other places	115	26	400		112	24		
Total of Assam	56,819	15,021	7,601	24,432	20,656	6,311	5,121	4,198
Unspecified places	3,843	115	16	143	160	•••	5	
GRAND TOTAL ABSTRACT.	6,89,820	2,69,785	1,00,504	1,39,834	1,15,579	11,870	7,902	6,037
Total of Bengal Ditto Bihar Ditto Chota Nag-	19,636	2,03,931 46,189 1,480	70,166 18,811 1,667	1,06,550 4,172 360	91,417 740		2,766 10	1,839
Ditto North-Western Provinces and Oudh.		3,012	1,873		1,496	19	***	
Ditto Panjab Ditto Central Pro- vinces.	1,516 456	" 1	370	1,110 2,986	1,110	:::		
Ditto Rajputana and Centra India.	384	en andre P	h		***	100,000 100,000	****	***
Assam Unspecified places		15,057 115	7,601 16		20,656 160		5,121	4,198
GRAND TOTAL	6,89,820	2,69,785	1,00,504	1,39,834	1,15,579	11,370	7,902	6,037

WEATHER AND CROP REPORT.

For the week ending the 6th December 1897.

Burdwan.—No rain. Weather seasonable. Harvesting of aman paddy continues.

Prospects excellent. Condition of cattle good. Fodder and water sufficient. Common rice selling as follows:—

Sadar			Srs. Srs.
Kalna	•••	•••	9½ to 13
Katwa	***		9 to 14
Raniganj	•••	•••	10 to 13 per rupee.
11		•••	11 to 13

Birbhum.—No rain. Weather seasonable. Harvesting of aman commenced. Standing crops doing well. Fodder sufficient. Prices are:—

Sadar ...

Rampur Hât ...

Old rice New rice.

Srs. Srs.

... 11.4 12.12 } per rupee.

Bankura.—No rain. Weather seasonable. Harvesting of winter rice going on. Rabi crops thriving. No cattle-disease. Fodder and water sufficient. Common rice 15 seers per rupee at Bankura and Vishnupur.

Midnapore.—Rainfall nil. Prospects of sugarcane, indigo and rabi crops good. Paddy is being reaped. Cattle-disease reported from Salbani police-station. Prices of common

Sadar 12 | per rupee.

Hooghly.—No rain. Winter rice is being reaped. No cattle-disease. Common rice sells from 8 to 12 seers per rupee.

Howrah.—Rainfall nil. Weather seasonable. Condition of rabi fair. Harvesting of aman continues; outturn good. Fodder and water sufficient. Common rice sells at 9 to 11 seers per rupee.

24-Parganas.—Rainfall nil. Weather seasonable. Prospects good and hopeful. Ploughing still continues for rabi crops and harvesting of winter rice going on. No cattle-disease. Fodder and water sufficient. Common rice sells as follows:—

Sadar

Barasat

Basirhat

Diamond Harbour

Srs.

9 to 12
12
10 to 12
11 to 12
11 to 13

Per rupee.

Nadia.—No rain. Aman being harvested. Rabi crops growing well. Common rice (new) selling at 10 to 13 seers per rupee and (old) at 8 to 9\frac{1}{4} seers. Fodder and water sufficient.

Murshidabad.—No rain. Weather seasonable. Harvesting of aman going on. Sowing of rabi finished. Prospects of kalai, sugarcane, and mulberry favourable. Fodder sufficient. No cattle-disease reported. Common rice sells as follows:—

Sadar 11
Jangipur 15
Kandi 13

Jessore.—No rain. Weather cool and clear. Prospects of rabi crops favourable. Harvesting of aman going on. No cattle-disease reported. Fodder and water sufficient. Common rice sells as follows:—

Srs. Jessore 10 to 13 Jhenida 11 Magura 11 to 12 per rupee. Narail 13-51 ch. Bangaon ... 13 •••

Khulna.—Rainfall nil. Weather seasonable. Cultivation of rabi crops going on. Harvesting of aman commenced. Prospects excellent. Water and fodder available. Common rice sells as follows:—

					ors.	
Sadar		•••	•••	10	to 14	per rupee.
Bagirhat Satkhira	***	•••	***	***	13	per rupee.
Batkhira	***	•••	•••	***	16)

Rajshahi.—No rain. Weather seasonable Prospects of crops excellent. Harvesting of winter paddy continues. No cattle-disease reported. Fodder and water ample. Common rice sells from 8 to 14½ seers per rupee.

Dinajpur.—Rainfall nil. Weather cold. Harvesting of winter rice commenced. Sowing of rabi nearly finished. No cattle-disease. Fodder and water sufficient. Price of common rice 14 seers per rupee.

Jalpaiguri.—Rainfall nil. Weather getting cooler. Outting of haimanti paddy commenced. Potato and mustard are still being sown. Transplantation of tobacco going on. Fodder and water sufficient. Common rice sells at 9 to 10 seers per rupee.

Darjeeling.—Rainfall nil. Hills.—Wheat, barley, phaphur, kalai, bhutma, mustard seed and potatoes are promising well. Terai—haimanti dhan ripening and being reaped; mustard and potatoes doing well. Coarse rice sells as follows:—

Srs.

Hills 6 to 9 per rupee. ... 9 to 13 per rupee.

Bhu!ta sells from 16 to 28 seers per rupee.

Rangpur.—No rain. Harvesting of aman going on. Prospects good. Common rice selling at 9 to 12 seers per rupee. Fodder and water sufficient, except at Kurigram, where they are reported as getting scarce.

Bogra.—Rainfall nil. Prospects of winter rice continue good. Pulses and oilseeds doing well. Fodder and water ample. Price of common rice (new aman) varies from 11¹/₄ to 15²/₄ seers per rupee.

Pabna.—No rain. Weather fine and cool. Prospects of crops excellent. Price of common rice 9½ seers at Sirajganj and from 9½ to 10 seers per rupes at Sadar. Fedder scarce at Sirajganj. No cattle-disease.

Dacca.—Rainfall nil. Weather seasonable. Prospects of standing crops excellent. Fodder available. Cattle-disease prevalent in the interior of the Sadar subdivision as well as in the town. Common rice 12 seers per rupee.

Mymensingh. - Rainfall nil. Weather seasonable. Prospects of standing crops good. Common rice 8 to 13 seers per rupee.

Faridpur.—No rain. Weather seasonable. Prospects of crops good. Aman paddy is being reaped. Rice 10 to 13 seers per rupee.

Backergunge.—Rainfall nil. Weather seasonable. Prospects of crops good. Common rice sells from 8 to 14 seers per rupee.

Tippera. - No rain. Weather seasonable. Harvesting of winter rice going on. Prospects good. Fodder sufficient. Common rice 10 to 13½ seers per rupee.

Noakhali.—Rainfall nil. Harvesting of amun commenced. Prospects good. No cattle-disease. Fodder and water sufficient. Price of common rice 14 seers per rupee.

Chittagong.—No rain. Weather seasonable Winter crops doing well except in waveswept tracts. Harvesting has begun in places. Water and fodder sufficient. Rice sells at 12 seers per rupee at Sadar.

Patna.—No rain. Paddy is being reaped. Rabi and poppy doing well. Rates of prices fluctuating. There has been a slight rise in the prices of rice and wheat, and a fall in the prices of barley, rahar and marua. Rice (new) selling at Patna at 15 seers per rupee. Fodder and water for cattle sufficient.

Gaya.—No rain. Paddy harvesting in progress. Prospects of rabi and poppy good. Burma rice sold at 111 seers, and country new rice 162 seers per rupee.

Shahabad.—No rain. Weather cold. Standing crops excellent. Paddy is being harvested. Cattle-disease reported from one village in Buxar. Fedder sufficient. Common rice selling from 12 to 14 seers per rupee.

Saran.—No rain. Cutting of paddy going on; outturn estimated at 17½ annas. Rabi and poppy doing well. Average prices are—common rice 14.8 seers, wheat 11.5 seers, barley 19.7 seers, makai 19.8 seers, gram 10.13 seers, arhar 10.11 seers and marua 20.12 seers per rupee.

Champaran.—No rain. Winter rice being harvested. Rabi sowings still continue. Poppy now germinating well. Prices on the whole fallen. Common rice sells at 14½ seers and makai at 21½ seers, against normal 17½ seers and 23½ seers respectively.

Muzaffarpur.—Rainfall nil. Crop prospects good. Harvesting of winter rice in progress. Rabi sowings nearly over. Prices are—common rice 11 to 15 seers, Burma rice 12 seers, wheat 10 seers, barley 14 seers, makai 20 to 21 seers, gram 10 to 11 seers, rahar 11 seers, and marua 23 seers per rupee.

Darbhanga.—No rain. Prospects of crops good. Harvesting of paddy in progress. Fodder and water sufficient. Price of common rice stationary at Sadar.

Monghyr.—No rain. Weather fine and cool. Harvesting of winter rice in progress. Pressing of sugarcane going on. Rabi sowings on low lands still going on in places. Poppy sowings completed; early sown plants coming on satisfactorily; and general prospects satisfactory. No cattle-disease. Common rice sells as follows:—

```
      Monghyr ...
      ...
      7\frac{1}{2} to 10 seers (old rice) per rupee.

      12 to 16 ,, (new rice) ,,
      ...
      10 to 12 ,, (old rice) ,,

      Jamui ...
      ...
      14\frac{1}{2} ,, (new rice) ,,

      15 ,, (new rice) ,,
      ...
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Bhagalpur.—No rain. Weather getting cooler. Rabi sowings approaching completion. Sugarcane and winter paddy being cut. Fodder and water sufficient. Cattle-disease continues. Common rice (new) selling at 14 seers per rupee at Sadar.

Purnea.—No rain. Harvesting of aghani rice going on. Rabi crops doing well. A few sporadic cases of cattle-disease reported from Araria sub-division. Fodder and water sufficient. Common rice (new aghani) selling as follows:—

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      Sadar
      ...
      ...
      ...
      15 seers per rupee.

      Araria
      ...
      ...
      ...
      16 ,, ,,

      Kishanganj
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      ...
      ...
      14 ,, ,,
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Malda.—No rain. Weather seasonable. Winter rice being harvested. Mustard and other rabi crops doing well. Kalai pulse approaching maturity. Coarse rice (old) selling at 12 seers per rupee.

Sonthal Parganas.—No rain. Harvesting of winter rice continues. Prospects of winter crops good. No cattle disease. A flight of locusts reported from Deoghur on the 2nd instant. Prices are—common rice 11 to 20 seers and maize 15 to 32 seers per rupee.

Cuttack.—Rainfall nil. Weather seasonable. Laghu sarad being harvested. Guru sarad ripening. Rabi in flower. Condition of cattle generally good. Fodder sufficient. Common rice sells as follows:—

Balasore.—Rainfall nil. Harvesting of beali continues. Sarad ripening and being harvested in places. Rabi crops and sugarcane thriving well. Price of rice varies from 13 to 18 seers per rupee in the interior. Rice sells at 13 and 18 seers per rupee at Balasore and Bhadrak respectively. Fodder and water sufficient.

Angul.—No rain. Harvesting of paddy and pulses in progress. Rice selling at 24 seers per rupee in Angul and 22 seers in Khondmals. Fodder sufficient.

Puri.—No rain. Laghu being harvested. Sarad ripening and being reaped in places. Common rice selling as follows:—

Hazaribagh.—No rain. Weather cold and seasonable. Harvesting of paddy going on. Standing crops good. Prospects of poppy favourable. Rice selling at 12 to 14 seers per rupee.

Lohardaga.—No rain. Harvesting of done dhan continues. State of standing crop good. Rice sells at 14 seers per rupee at Ranchi and 16 seers in the interior. Health of cattle good. Fodder and water sufficient. Grain in stock sufficient.

Palamau.—Rainfall nil. Weather seasonable. Harvesting of paddy commenced. Price of coarse rice from 12 to 16 seers per rupee.

Manbhum.—Rainfall nil. Weather seasonable. Prospects of crops excellent. Paddy being cut. No cattle-disease reported. Fodder and water sufficient. Supply sufficient. Average price of common rice:—

Sadar ...
$$\begin{cases} \text{Old rice 9 seers} \\ \text{New , } 13 & \text{,,} \\ \text{Old , } 10 & \text{,,} \\ \text{New , } 16 & \text{,,} \end{cases}$$
 per rupee.

General Summary.—There was no rain during the week; prospects remained unchanged. The harvesting of winter rice is everywhere in progress. The rabi, poppy, sugarcane, and other standing crops promise well. A flight of locusts is reported to have passed over Deoghur on the 2nd instant. No cattle-disease is reported except from places in Bhagalpur, Dacca, and Midnapore. The fodder-supply is everywhere sufficient except at Kurigram in Rangpur and at Sirajganj in Pabna. The price of common rice is falling with the appearance of the new grain in the market.

By order of the Lieutenant-Governor of Bengal,

REVENUE DEPARTMENT,

M. FINUCANE,

The 7th December 1897.

Sccretary to the Govt. of Bengal.

PRICES-CURRENT (RETAIL) OF FOOD-GRAINS AND SALT IN THE HEAD-QUARTERS STATION BAZARS OF THE DISTRICTS OF BENGAL DURING THE FORTNIGHT ENDING THE SOTH NOVEMBER 1897.

PRICES-UURRENT (retail) of Food-grains and Salt in the Head

QUANTITIES PER RUPEE IN

		,	WHEAT.		В	ARLEY.		RICE, E	BEST S	ORT.	RICE,	COMMON.	Jowa (Sorg	R OR CE	HOulg
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A STATE OF			1	25 10000	1 1		1	Aus. 11 0	1		Aus. 12 8				

* Present return not received.

To chitaks (karkatch), and Raniganj 10½ seers (panga).

At Rampur Hat the retail price of salt is 11 seers per rupee.

At Vishnupur the retail price of salt is 1½ seers per rupee.

In the subdivisions the retail price of salt is 9½ seers per rupee.

In the subdivisions the retail price of salt is 10 seers (panga), Tamluk 10 seers, and Ghatal 10½ seers.

In the Serampore and Jahanabad subdivisions the retail price of salt is 10 seers per rupee.

At Ulubaria the retail price of salt is 10 seers 10½ chitaks per rupee.

At Ulubaria the retail price of salt is 10 seers 10½ chitaks per rupee.

In the marts in the interior of the district the retail prices of salt per rupee are:—Chetla 10 seers, Barasat 10 seers, Baduria 10 seers, and Magrahat 9 seers 2 chitaks.

In the subdivisions the retail prices of salt per rupee are:—Kushtia (Bahadurkhali) 10½ seers (panga), Chuadanga 10 seers (panga), Tamluk 10 seers (panga), Tamluk 10 seers (panga), Tamluk 10 seers (panga), Tamluk 10 seers, Baduria 10 seers (panga), In the subdivisions the retail prices of salt per rupee are:—Lalbagh 10 seers, Kandi 11 seers, Jangipur return not received.

In the subdivisions the retail prices of salt per rupee are:—Jahanda 10 seers, Kandi 11 seers, Jangipur return not received.

In the subdivisions the retail prices of salt per rupee are:—Jahanda 10 seers, Kandi 11 seers, Jangipur return not received.

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quarters Station Bazars of the Districts of Bengal on the 30th November 1897.

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<sup>K. In the subdivisions the retail prices of salt (panga) per rupee are:—Bagerhat 9 seers and Satkhira 9½ seers.
L. In the subdivisions the retail prices of salt (panga) per rupee are:—Nator 8½ seers and Naugaou 8 seers 11 chitass.
M. At Kurseong and Siliguri the retail price of salt (panga) is 8 seers per rupee.
N. In the subdivisions the retail prices of salt per rupee are:—Gaibanda 8½ seers, Nilphamari 9 seers, and Kurigram return not received.
O. At Sirajganj the retail price of salt is 10 seers per rupee.
P. In the marts in the interior of the district the retail prices of salt per rupee are:—Madanganj 10 seers 10 chitaks, Manikganj 9 seers, Mirkadim and Munshirhat returns not received.
Q. In the subdivisions the retail prices of salt per rupee are:—Kishorganj 9 seers 6 chitaks, Jamalpur 9 seers 7 chitaks, Kagmari 8 seers, and Notrokona 9½ seers.
R. In the subdivisions the wholesale prices of salt per maund are:—Madaripur Rs. 3-13 (crushed) and Goalundo Rs. 4-7 (panga).
S. In the subdivisions the retail prices of salt per rupee are:—Pirojpur 8 seers, Bhola 8 seers and Patuakhali 9 seers.</sup>

PRICES-CURRENT (retail) of Food-grains and Salt in the Head-quarters

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				WHEAT.	1	В	ARLEY.		RICE,	BEST S	ort.	Ric	CE, COM	IMON.	Jowa (Sorg	R OR CI	HOLUM.
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CALCUITA, The 7th December 1897.

Present return not received.

T. In the subdivisions the retail prices of salt per rupee are:—Chandpur 9 seers and Brahmanbaria 9 seers 11 chitaks.

U. At Feni Hât the retail price of salt is 8 seers per rupee.

V. At Cox's Bazar the retail price of salt is 8½ seers per rupee.

V. In the subdivisions the retail prices of salt per rupee are:—Dinapore 10 seers, Rarh 10½ seers, and Bihar 9¾ seers.

V. In the subdivisions the retail prices of salt per rupee are:—Nawada 9 seers, Aurangabad 9½ seers, and Jahanabad return not received.

V. In Siwan and Gopalganj subdivisions the retail price of salt is 12 seers per rupee.

Z. At Bettiab the retail price of salt is 10 seers per rupee.

a. In the subdivisions the retail prices of salt per rupee are:—Hajipur 9½ seers and Sitamarhi 10 seers.

b. In the subdivisions the retail prices of salt per rupee are:—Samastipur 11 seers and Madhubani 10½ seers,

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Station Bazars of the Districts of Bengal on the 30th November 1897 - (concluded).

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Published for general information.

c. In the subdivisions the retail prices of salt per rupee are:—Beguserai 10 seers and Jamui 10½ seers.
d. In the subdivisions the retail prices of salt per rupee are:—Kishangani 9 seers and Araria 9 seers.
lattera 9 seers (panga), Pakaur 10 seers (karkatch), and Rajmahal return not received.

Jamtera 9 seers (panga), Pakaur 10 seers (karkatch), and Rajmahal return not received.

In the Jajpur and Kendrapara subdivisions the retail price of salt (panga) is 9 seers per rupee.

At Bhadrak the retail price of salt is 10 seers per rupee.

At Giridin the retail price of salt is 10 seers per rupee.

At Gobindpur the retail price of salt is 10 seers per rupee.

PRICES-CURRENT (wholesale) of Food-grains, Firewood, &c.

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· Present return not received,

CALCUTTA,
The 7th December 1897.

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n the undermentioned Marts of Bengal on the 30th November 1897.

						S.	ER	EE	S	RE	A	NI.	AN	ST	40	F	0	NI	AU	M	R	PI	ES	IC	PR						-			Om	JAR	. In						AW	STR		
					T.	SAI					-				OD.	wo	RE	F								nen	In						LKS,										DIA		
Marts.		last year.	Corresponding return of		The second second second	Next preceding return.				Present return.			last year.	Corresponding return of		The street of th	Novt megaline meters		THE PART OF ATTACK	Present return		1000	last year			Next preceding return.		900		Present return		last year.		roav preceding return.	Nort		Present return,		last year.	-			Noxt precedino roturn		Present return.
78	T		77		1	6				75			4				78			72		1	71		1		70	1		69		8			67		66	*		6	1		64	1	63
	P.	., 1	. A	Rs	P.	Δ. :	s.	R	P.	Δ.	Rs.	1	. F	з. Д	Ra	Р,	Δ,	Rs	Р.	Δ.	ls.	P. 1	Λ.	Zs.	B	. I	S. A	Rs	P.	Λ.	Rs.	Δ, Ρ.	Rs,	P.	Rs. A	P.]	Rs. A.	Ρ.	Α,	Rs.		A. I	Es.		3. Δ.
I. Calcutta.	0	1	14	3	0	9	3	1 8	0	8	3	0	(7	0	0	7	0	0	7	0.	0	8	4	0) (0	6	0	0	6	.						0) (3 0	1	0	an.	kah	12 (per
2. Burdwan.							ga.	ani	6			1	0	8	0	0	8	0	0	8	0	0	8	3													-	0	0	0	"	0		kah	0 0 per
3. Midnapor	0		0	4	0		17	3	0;	12	3		6	2	0	0	4	0	0	4	0	0	8	1	1	(0	4	0	8	4							0	0	0	2	Q	12 in.	kah	o o
I. Pabna.	1						14	3	6)			1				- 1			- 1			1		3	8	(0	8	0	0	8			1			•••		0	10	0		J2 mau		2 0
. Rangpur.	1						ga. 0	4	u.			1				- 1				0		0	0	3	0	C	8	6	0	8	6				•••	1				10	o.	upe	6 or r	es p	6 bund
. Daoca.	1						u.	mg	Fa 01				- 1			4	4	0	0	4)	0	3 (8	5	0	0	5	C	0	5			1						•••			•••		
. Chittagong		0	0	5	0		12	3 Pan	0	0	ı,	4	0	8	0	1				42		0	3 (12	4	0	0	5	0	0	5									•••					•
. Patna.	1					••	10	3	01			١.					5	0	0	5)	0 0) ((8	0	0	3	0	0	3			1				1						1	
. Muzaffarpa		9	8	3	01 8			P		0	3 1	3	c	4	0	0	4	0				0) ;	(8	0	0	8	C	0	8			1		1	•••			•••			•••		
Bhagalpur.	18), (0	4	1				0			1	5	0				0	(4	5				1					-						•••				and the same	
Cuttack.	11	0	3	3						2		3	0	4	0	0	4	0	0	4	4	0	•	8	4	0	8	4	0	8	1 8	1		1		1		-	0	10	2	0	3 in.	3 kah	o per
Ranchi,									,				1		0	1							0	8	5				-	•				1	***			1				1	•••		

M. FINUCANE,
Secretary to the Gort of Bengal,

Abstract of the Results of Meteorological Observations taken at the Alipore Observatory in the month of November 1897.

			Inches.	Date.	Hour
			29.938		4. 生产
he mean pressure of the month	94 masks' registers		29.970		
he average pressure of November from	24 years register.	•	30.085	24th	10
he highest pressure in the month			29.788	13th	16
he lowest pressure in the month		•••	0.297		
he range of pressure	• •••		Hours		
he total number of hours of bright sun	shine during the n	nonth	222.3		The State of
he total number of hours of bright sur	of synshine		330.8		
he maximum possible number of hours	or summer		Θ		
n of the month			72.6		
he mean temperature of the month	from 24 years' reg		74.8		
he average temperature of November	nom or jours is a		84.0	4th	
he highest temperature in the month			60.2	30th	
he lowest temperature in the month	meh		23.8	46	
he range of temperature during the mo	onth	4	15.4		
he mean daily range of temperature		•••	19.2	20th	
he greatest range of temperature in on	e day		Per cent.		
[14] - 1 - [2] : [14] - [15] - [16] - [16] - [16]					
he mean humidity of the mouth			75		
he average humidity of November from	n 24 years' registe	ers	. 72		
			0.607		
he mean vapour tension of the month		-1-4	0.616		
he average vapour tension of Novembe	er from 9 years' re	gisters	2.39		
he mean cloud proportion of the mont	n		2 00		
he average cloud proportion of No	vember from 20	years	2.42		
registers		***	Ins.		
			Nil.		
The total rainfall of the month	a half registering	rain.			
The total rainfall indicated by a Beckley	O fast a hove the or	(banco	Nil.		
gauge (mouth of the gauge about 5	z deet above the g	, our ,	0.85		
he average fall of November from 48	years registers		Nii.		
The greatest fall in 24 hours			Days.		
n	The second secon		Nil.		
The number of rainy days in the month The average number of rainy days in N	ovember from 24	vears'			
	Ovember From 2		2		
registers		intian			
The mean maximum equilibrium temper	rature of solar rad	lation	131.4		
during the month	•	•••	50.6		
The mean difference of sun and air tem	peratures			1044	
he greatest sun temperature	프랑크 이렇게 얼룩하다 했다.		140.8	10th	
the greatest excess of sun over air temp	erature		58.2	lst	
The mean temperature of the nocturnal	radiation thermo	meter			
on woollen cloth			59.5		
n 1 design of the most urnal	radiation thermo	meter			
he mean depression of the nocturnar	re at 4 feet abov	re the			
he mean depression of the nocturnal		***	6.1		
below the minimum air temperatur					
below the minimum air temperatur		ometer			
below the minimum air temperature ground	l radiation thermo	meter	9.2	21st	
below the minimum air temperatur	l radiation thermo	ometer 	9.2 Miles.	21st	
below the minimum air temperature ground	l radiation thermo	ometer 	Miles.	21st	
below the minimum air temperature ground	l radiation thermo		Miles. 36.0		
ground	ay	ometer	Miles.	21st 24th 17th 11	to no

N. 222, N.E. 69, E. 18, S.E. 9, S. 1, S.W. 13, W. 33, N.W. 83, Calm 272.

The results of observations at the Alipore Observatory are not rigorously comparable with the registers of past years (at the Park Street Observatory). The barometer is about 3 teet higher at Alipore, and, other things being equal, reads therefore '003 lower. The diurnal range of temperature is also greater at Alipore, and the mean temperature apparently about 1.6° lower; and, finally, the thermometer which furnished the record of temperature at the Surveyor-General's Office during 20 years and upwards is found to read 0.6 higher than the Kew standard thermometer, which is the standard of reference at the present Observatory.

J. H. GILLILAND,

METEOROLOGICAL OFFICE, GOVT. OF INDIA, For Meteorological Reporter to the Govt. of India. Calcutta, the 6th December 1897.

Abstract of the Results of the Barometric and Thermometric Observations taken at 10 a.m. at the Meteorological Office, Chowringhee, in the month of November 1897.

The mean pressure at 10 A.M during the month		Inches. Date.
The mean pressure at 20 a.m. during the month	•••	29.996
The mean temperature at 10 A.M. during the month		77.9
The highest temperature during the month	***	86.5 11th.
The lowest temperature during the month		59.9 30th.
The absolute range of temperature during the month	***	26.6
The mean daily range of temperature during the month	***	17.7
The greatest range of temperature in one day during the month		21.8 19th.
The wean 10 A.M. humidity during the month		66 Inch.
The mean 10 A.M. vapour tension during the month		•629
The total rainfall of the month	***	0.01
The greatest fall in 24 hours	•••	0.01 9th.
The number of rainy days in the month		Nil

C. LITTLE,

Meteorological Reporter to the Govt of Bangal.

METEOROLOGICAL OFFICE, BENGAL,

The 6th December 1897.

Results of the Barometrical and Thermometrical Observations taken at the Meterrological Office, Chowringhee, from 28th November to 4th December 1897.

			0 A.M.			TEMPER	ATURE.			H	GROMETRY	Υ.	pours.
Monta.		Date.	Pressure at 10 corrected and recto 32° Fahr.	Daily mean.	Maximum.	Range.	Minimum.	Dry bulb at 10 A.M.	Wet bulb at 10 A.M.	Vapour tension at 10 a.m.	Dew point at 10 A.M.	Humidity at 10	Rainfall, past 24 l
1897.			Inches.				0	a .	0	Inches.	0	%	Inches.
Kevember "" December	:::::::::::::::::::::::::::::::::::::::	28th 29th 30th 1st 2nd 3rd 4th	30 024 29 982 976 30 005 065 073 079	71·2 72·2 70·2 69·2 66·6 66·4 66·9	81·5 81·4 80·5 79·5 78·2 78·0 78·0	20·6 18·5 20·6 20·6 23·3 23·3 22·3	60·9 62·9 59·9 58·9 54·9 54·7 55·7	76·1 76·6 74·5 73·6 70·8 71·6 71·4	63·3 68·6 65·6 66·6 61·7 62·7 63·6	*590 *593 *512 *560 *430 *452 *481	63·6 68·8 59·6 62·1 54·7 56·1 57·9	65 65 60 68 57 58 63	Nil,
Tue V		he mean		49				ly ···		1.2	Belly (Co.)	Inches. 30.029 Θ 69.0	
dilia w	T	he mean he extre he maxi	me vari	ation o	f temp	eratur	Ð	•••		***************************************		26·8 81·5	1298
Project 6	T	he mean	10 A.M	relati	ve hun	idity o	f the s	even d	ays	•••		62 Inches	

The total fall of rain from 28th November to 4th December 1897 ... Nil

The daily mean temperatures are the crude means of maximum and minimum temperatures.

Meteorological Office, Bengal, The 6th December 1897. C. LATTLE,

Meteorological Reporter to the Gost. of Bengal

Results of the Meteorological Observations taken at the Alipore Observatory from

					28	th N	over	nber	to 4	4th D	ecer	nbe	r 1897			
			s of	neter		Темре	RATURI	١.		Hygron	ISTRY		Wind.			
Month.	Date.	Maximum in sun.	Number of hours bright sunshine.	Mean pressure barometer at 32° Fahr.	Mean.	Maximum.	Range.	Minimum.	Mean wet bulb.	Vapour tension,	Dew point,	Bemidity.	Prevailing direction.	Miles recorded.	Rain.	WEATHER
897.		1 .		Inches.	0		0	0	n	Inche	0	1 %			Inches.	
Nov.	28th	133.5	9.4	29-959	70.0	79.8	18-9	60 9	65.1	0.555	61.9	75	N N W, N, and calm.	31	Nil	Chiefly clear,
"	29th	133.0	8.2	-928	70.5	79.6	16-6	63.0	64.8	-539	61.0	72	N N W and calm	23	, 11	Chiefly clear,
	30th	123-8	6.5	-922	67:6	77:8	17 6	60.2	63.4	-529	60.5	78	N N W and calm	10	,,	Partially cloudy
ec.	lst	125-2	9.0	•959	67-0	77.8	19-6	58 2	61.0	•458	56.4	69	N N W and calm	20	,,	Chiefly clear,
	2nd	130-2	9.2	-998	64.5	76.3	21 6	54.7	58.5	413	53 6	68	N, N N W, and	27	"	Clr <u>a</u> .
,,	3rd	128:3	9.2	30.000	65:1	76.1	21.4	54.7	59.0	•420	64 1	68	N N W and calm	25	"	Clear, A.
B)	4th	130 7	9.8	*024	64-9	76-2	20.8	55-4	59.7	-445	55.7	72	N N W, W N W, and calm.	31	,,	Clear,
	9	The to The m The m	verage General tal nu axim	umber of um pos empera	of housible	of the	bright bright per of	nt sur hour	shin s of	e suushi	ue .		24 years, Surv	::		10 chos 29 970 80 010 Hours 60 8 75 8 67 1
	1			eral's C		f ten	neret	ure.	•••				***			70.7
				um ten				ure				•		***	Richard Communication	25·1 79·8

		average pressure of the General's Office		ling per	od for 24 y	ears, Surve	yor-	29.970
	and the same of th	General & Onice		•		***		30.010
	(TX) - A	-4-1 6 h 6 h -						Hours.
		otal number of hours of br				***		60.8
0 6 6	The n	naximum possible number	of hours o	f suushin	e	***		758
8	The n	nean temperature of the se	ven days			***	1000	67-1
		verage temperature of the		nding per	rod for 24 y		yor-	1
		General's Office				***		70.7
	The e	xtreme variation of tempe	rature					25.1
	The p	naximum temperature					151	79.8
								Miles.
	The h	nighest velocity of the wind	d in one he	ur	***	144		.6
								1.
G.B.	The n	nean relative humidity						72
		average relative humidit	y of the	correspon	ding period	for 24 y	ears,	
45		Surveyor-General's Office	е	•				71
								Inches.
	The t	cutal fall of rain from 28th	November	to 4th D	ecember 18	97	***	Nil
	The a	verage fall of the correspon	ading peri	od for 24	years, Sur	veyor-Gene	ral's	
		Office				***		0.04
	The to	otal fall from 1st January	to 4th De	cember 18	397		garright to	58.33
	The a	verage fall of the correspon	ading peri	od for 2	vears Sur	veror-Gene	rul's	
		Office	P Port		. Jours, our	To, o Gene		65.19
			1 1		Charles of the course of the Course		***	00 10

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and The mograph, and from observations made at 6h., 10h., 16h., and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. thermometers are verified and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four lest above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed if

the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph. The mouth of the rain-gauge is one foot above the ground. A, dew.

METEOROLOGICAL ()PFICE, GOVT. OF INDIA, Calcutta, the 6th December 1897.

J. H. GILLILAND, For Metecrological Reporter to the Gort, of Indi

IRRIGATION DEPARTMENT, BENGAL.

Abstract statement showing Tollage on Canals in Bengal classed as Major Works for the month of October 1897, as compared with that of the corresponding month of the previous year.

		[OL	LAG	е, 1897-9	8.		V 63 - 150559	Tol	LAG	е, 1896-97	7.	
CANALS,	Durin	ng t		Start Starter and the start of	of oth.		Durin	g t		To end	l of nth.	the
1		2			3			4		1	5	
Orissa Circle.	Rs.	Α.	Р,	Rs.	Α.	Р.	Rs.	Α,	Р.	Rs.	Α.	P.
Taldanda Canal System Kendrapara ditto	715 8,257	11	2	7,250 67,559	0	0	654 12,083	0	2	17,612 61,698	8 13	6 3
High Level Canal, Range I Ditto, , II Ditto, , III	1,512 254 48	1	6 3	9,480 1,330 309		0 3 0	-368 -649 -666	8	0	9,683 1,784 460	3	0 3 0
Jajpur Canal	42	3	9	187	12	9	-22	4	3	165	7	6
Total Orissa Circle	10,829	10	3	86,117	0	1	11,030	10	4	91,404	G	6
South-Western Circle.					*					Stiffed Lya	8 70	iv J
Midnapore Canal Hijili Tidal Canal	8,183 5,559		6	77,186 64,246	$\frac{12}{5}$	3	15,475 8,226	6 7	6	93,355 64,293	1 0	8 6
Total South-Western Circle	13,742	8	0	1,41,433	1	3	23,701	13	6	1,57,648	1	9
Sone Circle. Patna Canal System	2,038	10	6	13,465	13	9	1,408	14	9	12,782	6	0
Arrah ditto Buxar ditto	3,009 581	8	9	19,558 5,545	$\frac{5}{2}$	9	1,549 680	11	6	12,515	3	9
Total Sone Circle	5,629	7	0	38,569	6	3	3,639	6	3	30,996	2	9
GRAND TOTAL	30,201	9	3	2,66,119	7	7	38,371	14	1	2,80,048	11	0

Government Transport Service.

			TOLLAG	3E, 1897	-98.				TOLLA	GE, 1896	-97.		
	Du	ring th	e month,	То	end of th	he month.	D	uring t	he month.	To end of the month.			
CANAL.	Passengers.	Goods.	Total re-	Passengers.	Goods.	Total re-	Passengers.	Goods.	Total re-	Passengers.	Goods,	Total re-	
1	2	3	4	5	6	7	8	9	10	11	12	13	
Orissa Circle. High Level Potal Orissa Circle	No. 7,572 7,572	Mds. 358	Rs. A. P. 5,787 6 3 5,787 6 3	No. 35,874	Mds. 5,081		No. 4,676	Mds. 689	Rs. A. P. 3,814 7 2	No. 22,122 22,122	Mds. 3,087	Rs. A. P. 19,648 15 9	

Assessed Tollage Receipts.

Albert Toron Michigan		E	ARN	ING	s, 1897-98	3.		E	ARM	IINC	s, 1896-9	7.		
Canals.		Durin mon		ө	To end	15.4	the	Durin		1e	To end of the month.			
1	10, 4	2			- 3	3					5			
The second second		Rs.	Α.	Р.	Rs.	Λ.	Ρ.	Rs.	Α.	Ρ.	Rs.	Α.	P.	
Orissa Canals		16,617	0	6	11,340	7	7	14,845	1	6	1,11,053	6	3	
Midnapore Canal		8,183	2	6	77,186	12	0	15,475	6	6	93,355	1	3	
Hijili Tidal Canal		5,559	5	6	64,246	5	3	8,226	7	0	64,293	0	6	
Sone Canals		5,629	7	0		6	3	3,639	6	. 3	30,996	2	9	
Total		35,988	15	6	2,93,403	15	1	42,186	5	3	2,99,697	10	9	

CALCUTTA, The 7th December 1897. T. H. CLOWES, Under-Secy. to the Govt. of Bengal,

IRRIGATION DEPARTMENT, BENGAL.

Abstract statement showing Tollage on Canals in Bengal classed as Minor Works and Navigation for the month of October 1897, as compared with that of the corresponding month of the previous year.

	Г	oll.	AGE	, 1897-98	•		. T	OLL	AGE	, 1896-97.		
CANALS.	During		•	To end mon		he	During		е	To end mon	- 600 1000	he
1	2			3		14	4	#25co		5	410 Au	
	Rs.	۸.	P.	Rs.	Α.	Р.	Rs.	Α.	P.	Rs.	Δ.	P.
Calcutta and Eastern Canals Tolly's Nala	28,285 5,392	13 12	9	1,40,532 35,399	1 9	3 6	33,630 6,944	1 0	9	1,55,823 41,673		9
Total	33,678	10	3	1,75,931	10	9	40,574	2	0	1,97,497	4	9
Orissa Coast Canal	5,938	2	3	46,581	13	3	9,335	5	0	56,599	13	9
Nadia Rivers	8,993	8	0	55,051	0	9	10,274	4	0	69,522	9	9
GRAND TOTAL	48,610	4	6	2,77,564	8	9	60,183	11	0	3,23,619	12	3

CALCUTTA,
The 7th December 1897.

T. H. Clowes, Under-Secy. to the Goot, of Bengal.

CIRCULAR AND EASTERN CANALS.

Approximate Return of traffic for the week ending Saturday, the 4th December 1897, as compared with the corresponding week of the previous year.

60 (A)	WEEK ET	DECEMBER 1	SAY, THE	WEEK E	NDING SATURD II DECEMBER 1	AY, THE 1896.
NATURE OF CARGO.	Number of boats.	Weight of cargo.	Tollage.	Number of boats.	Weight of cargo.	Tollage.
	No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy Jute Firewood Other articles	292 685 89 849	30,700 3,01,975 74,175 1,95,475	323 4,751 1,109 2,756	600 401 73 886	41,725 1,59,390 64,550 2,47,760	2,804 821 3,86
Total	1,915	6,02,325	8,939	1,960	5,03,425	7,89

BENGAL CENTRAL RAILWAY.

Abstract of principal commodities carried over the Bengal Central Railway during the month of September 1897, as compared with the same month of the previous year.

						189	и.	1896.		Тот.	AL.	Increase.	Decrease.
all h	STAP	LES.				Up.	Down.	Up.	Down.	1897.	1896.	Increase.	Decrease.
100	Annual Control	46	-				Theire	Town	Tons.	Tons	Tons.	Tons,	Tons.
			<u> </u>			Tons.	Tons.	Tons.	Tons.				
coal and Cok	carried	for th	ne Pi	ablic	and	1,451	,	2,201	******	1,451	2,261	· · · · · ·	750
Foreign Rai		•••	***	***			1			1		1	
cotton, raw cotton, manuf Twist and	yarn, Eu	Cobcom		***		75		151	******	75	151		76
Ditto, Piece-good				***		454		822		454	822	********	368
Ditto,	Indian	***	•••	1889		2		1	*******	2	1	1	*****
Drugs and Ch Intoxicati	emicals—	han O	nium						**				
Non-intoxic	stang-					8 9 6 6 9 6							*****
Oinchona	Dark		***			2		3	******	2	8		1
Oyes and Tan Indigo	9							3		1	8		. 2
Myrabolar	ns	***	***			2	******	1	******	2	1	1	******
Cutch	*** ***	***	***	***	***	5	12	1	42	17	43		26
Aniline D	res		***	***				1			1	*****	1
						SAC.87	water - I	1000		100			
Wheat			•••	***	**	1 12	125	149	36	137	185	******	48
Do, not	in the nus	k		***	•••	280	135	1,017	93	415	1,110		695
Jawar and Gram and	bajra	***	***	***		147	3	_102	87	150	189		39
Others	brine.	***	•••		•••	******		******	******	*****			
Hides and Ski	ns-												
Hides of cat Dressed or	C163			***		1							9
Raw Skins of She		***	***	***	***	}	51	******	38	51	38	13	*****
Dressed of	tanned		.**	***	***							1	
Raw Iorns		***		***	***	******			*****	******	*****	******	*****
Jute-									77.010	18,703	17,218	1,485	
Raw Gunny-ba	gs and clo	oth	:. .	:::		20	18,703	25	17,218 8	34	33	1,200	
iac-													
Stick		***			***	}			*****	5	8		
eather, man		•••	•••	***	***	5		8					
Beer		***	***	***	***	"	, ••••••	*****			******	******	
Spirits						4		4		4	4		
Metals—											******		*****
Copper, u Brass,	nwrought ditto	***	***	***						******	******	*****	
Copper, w	rought	***	***	***	***	10	7	8	6	17	14	3	******
Brass, Iron	ditto	***			•••	45	1	60	3 5	46 32	63 9	23	17
Others		***	***	***	**	17	15	•				11.00	
-						. 242	23	450		265	450		185
Kerosine		***		***	***			9		""11	9	2	*****
Cocoanut		***	***	***	***	90		146		90	146		56
Oilseeds-			•••				6		51	6	51 94	51	45
Rape and	mustard		***	***	***	69	78 64	55	39 22	145 71	22	49	
Til or jin	jili			***							******		
Earth-nu	ts		***	***				*****			******	******	*****
Castor Others				***	***	******			9		9	******	9
Opium		***	***	•••				99		16	32	******	16
Paper and Pa	steboard		•••		•	16		32		4	5		1
Provisions— Ghee			***	***	***	4	33	5	70	33	70	******	37 30
	its and no				ton.	55	54	65	74	109	139		30
Railway planthe Public											*****	******	
Locomoti	ves, engu	nes, a	nd te	nders,	and		****	•••••	,,,,,,,	100			
	and true									******			
Materials— Steel rai	s and fis	h-plate	s, sle								******		98
keys of Other so	steel and	Cast-11	on.					85		*****	85		85
						502	4	676	13	506	689	•••	183
Salt Saltpetre, &c	<u></u>										*****	******	
Saltpetre	line subs	tances	***									******	11000 11000
Bilk, raw-									*****	•••	******	****	******
Foreign					***				*****				
Silk piece-go Foreign	ods-			***							******		
Indian-			181.4				·				******		******
Muga	*** **	***	***	***	***				,	******		1	

4718 SUPPLEMENT TO THE CALCUTTA GAZETTE, DECEMBER 8, 1897.

STAPLES.	10.11	897.	18	96.	Ton	AL.	Increase.	Dec
Reference and the month of	Up.	Down.	Up.	Down.	1897.	1896.	Increase,	Decrease
Billion and the second second	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons
Spices—		\$0.6T	A. A. B. B. B. B.	43,920,1032		Surger of S		
Betel-nuts		398	9	532	398	541		143
Pepper			4	******			******	4
Chillies	8	12		75	20	83	******	******
Cardamoms			******				*****	63
Others	6	1	7	15	7	22		15
dime and limestone	2	*****	9	2	2	11	******	9
Refined or crystallized, including sugar- candy.	81	8	14	51	34	65		31
Unrefined, viz., molasses and jaggery or gur, and other saccharine produce.	35	356	112	167	391	279	112	
lea-		1. Tak.			Control Park			Blog
Stone	14			******	14		14	
Indian			******			*****	*****	******
obacco	60		40	*****	60	40	20	******
Unmanufactured	88	92	123	49	180	172	8	*****
Cigars	*****							******
Other sorts	* ******	*****		******	******	******	******	
Vool, raw						•••••		*****
Piece-goods, European	******					******	· · · · · · · · · · · · · · · · · · ·	******
Ditto, Indian	******		2	*****	******	2		3
Il other articles of merchandise	362	649	668	288	1,011	956	55	******
Total	4,134	20,839	7,080	18,993	24,973	26,073	1,840	2,940

A. Y. Kelson,

CALCUTTA, the 3rd December 1897.

Auditor.

Weekly Return of Traffic Receipts on Indian Railways.

EAST INDIAN RAILWAY.

Approximate Keturn of Traffic for the week ended 27th November 1897 on 1,702 46 miles open.

Share the rear space of	COACHI	NG TRAFFIC.		AND MINERAL		walker also	TRAFFIC	TRAIN-MIL	BS RUN.
estable to the second	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.	Other earnings (estimated).	Total	Coaching.	Merchan- dise.	Total.
rotal traffic for the week or per mile of railway for previous 203 weeks of half- year	304,737 *5,969,345	Rs. A. P. (a)3,72,387 7 0 218 11 9 *65,68,756 10 0		Rs. A P. 8,19,639 6 0 481 7 1 † 1,48,06,641 10 0	20,696 0 0 12 2 6	Rs. A. P. 12,12,722 13 0 712 5 4 2,18,52,421 4 0	93,457 1,887,6332	140,952 2,923,986	234,409
Total for 219 weeks	6,274,082	69,41,144 1 0	7,87,81,404 20	1,56,26,281 0 0			1,981,09#	3,064,938	5,046,028
total for corresponding week of previous year Per mile of railway correst or d- ing week of previous year otal for corresponding 21; weeks of previous year	\$08,998 6,296,908§	3,38,161 2 1 197 9 9 66,95,072 15 6		8,03,054 8 11 472 1 3 1,40,69,917 2 10	24,699 10 5 14 8 4 4,45,323 11 9	11,63,915 5 5 684 3 4 2,12,10,313 14 1	92,590 1,835,839	148,250 2,728,360	240,84 4,564,19

13.155)
9,698 on account of difference between the approximate and audited figures for the week ended 2th 2,539 October 1897.

TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for the week ended 27th November 1897 on 22.23 miles open.

Section 5	COACHING	TRAFFIC.		MERCHANDISE AND MINERAL TRAFFIC.			ther earnings		TRAPPIC TRAIN-MILES BUN.			
Judicia?!	Number of passengers.	Coaching receipts.		Weight carried.	Receipts.		(estimated).	Total earnings.	Coaching.	Merchan- dise.	Total,	
		Rs. A.	Ρ.	MDS. 8.	Rs. A. P.		Rs. A. P.	Rs. A. P.	1			
tal traffic for the week per mile of railway r previous 20% weeks of half-	(a)19,201	(a)4,685 5 210 12		15,053 10	665 11 0 29 15 2		8 0 0 0 5 9	5,359 0 0 241 1 2	1,097	91	1,188	
Year	*413,142	*97,449 1	0	12,04,729 0	†8,572 1 0		‡129 0 0	1,06,150 2 0	22,646	1,811	24,45	
Total for 21ş weeks	432,343	1,02,134 6	0	2,19,782 10	9,237 12 0		137 0 0	1,11,509 2 0	23,743	1,902	25,64	
COMPARISON.						1						
tal for corresponding week		6.6	. 1						N N	£		
of previous year	22,236	5,431 3	0	16,708 0	715 15 0		8 6 0	6,155 8 0	1,074	314	1,188	
al for corresponding 215		244 5	1		32 3 4		0 6 0	276 14 5				
weeks of previous year	451,673	1,07,434 14	2	2,12,527 20	9,471 4 0		209 1 3	1,17,115 3 5	23,994	1,589	25,58	

5 on account of difference between the approximate and audited figures for the week ended 9th October 1897.

DELHI-UMBALLA-KALKA RAILWAY.

Approximate Return of Traffic for the week ended 27th November 1897 on 160.47 miles open.

and cost	COACHIN	G TRAFFIC.	MERCHANDISE TRA	AND MINERAL	Other earnings		TRAFFIC	TRAIN-MIL	ES RUN.
The state of the s	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.	(estimated).	Total earnings.	Coaching.	Merchan- dise.	Total.
Mary and the state of	G 0 (A)	Rs. A. P.	MDS. S.	Rs. A. P.	Rs. A. P.	Rs. A. P.	1 7 24	e adject of	entities (
otal traffic for the week r per mile of railway or previous 203 weeks of half-	16,051	(a)17,588 2 0 109 9 8	90,272 30	13,585 12 0 84 10 8	120 0 0 0 11 11	31,293 14 0 195 0 3	7,255	3,690	10,945
year	*338,734	*4,02,236 11 0	†17,11,284 3 0	12,69,966 9 0	\$1,987 O O	6,74,190 4 0	161,011	83,148	244,159
Total for 219 weeks	354,785	4,19,824 13 0	18,01,557 20	2,83,552 5 0	2,107 0 0	7,05,484 2 0	168,266	86,838	255,104
COMPARISON.							Land Cal		
ofal for corresponding week of previous year or mile of railway correspond- ingweek of previous	17,530	15,459 12 4	78,039 10	12,401 13 9	54 3 9	27,915 13 10	6,520	3,443	9,963
otal for provious year		96 5 5		77 4 7	0 5 5	173 15 5			*****
weeks of previous year	368,895}	3,33,886 4 9	15,64,084 30	2,01,955 3 9	1,388 3 10	5,37,229 12 4	145,391	71,821	217,212

ss on account of difference between the approximate and audited figures for the week enled 9th 36.) October 1897.

EASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K.-D., AND ASSAM BEHAR SECTIONS.)

Approximate Return of Traffic and Mileage for the week ended 27th November 1897 on 817 miles open.

	COACHIN	G TRAFFIC.	MERCHANDISE TRA	AND MINERAL PFIC.	Other earnings	Total	TRAPPIC TRAIN-MILES RUN,			
entropy of contract of the second	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.	(including ferry),	earnings.	Coaching.	Merchan- dise.	Total,	
en regulation of the con-		Re. A. P.	M DS. 8.	Rs. A. P.	Rs. a. P.	Re. A. P.	7.5	1985 ASS 1		
Potal traffic for the week Or per mile of railway	199,500 244	1,09,190 0 0 134 0 0	11,78,360 0 1,442 0	2,65,700 0 0 325 0 0	87,550 0 0 28 0 0	4,12,449 0 0 *487 0 0	31,200	47,359	78	
For previous 20 weeks of half-	3,527,363	16,88,678 0 0	2,12,33,752 0	45,54,613 0 0	3,38,188 0 0	65,81,479 0 0	660,477	863,877	1,524	
Total for 21 weeks	3,726,863	17,97,868 0 0	2,24,12,112 0	48,20,313 0 0	3,75,738 0 0	69,93,919 0 0	691,677	911,236	1,609	
COMPARISON.		10 60 20 10	The order		I will be to the	1000	To refer the call	dison-		
fotal for corresponding period of previous year	250,566	1,27,551 0 0	10,92,296 0	2,14,566 0 0	32,808 0 0	3,74,425 0 0	32,589	42,362	74	
Per mile of railway correspond- ing week of previous year	388	157 0 0	1,842 0	263 0 0	23 0 0	413 0 0		*****	***	
Total to corresponding date	4,444,104	20,54,909 0 0	2,86,91,573 0	50,41,294 0 0	3,71,038 0 0	74,67,241 0 0	677,046	923,775	1,600	

^{*} Excluding steamer earnings, † Audited up to 9th October 1897.

DACCA STATE RAILWAY.

Approximate Return of Traffic and Mileage for the week endel 27th November 1897 on 86 miles open.

	COACHING TRAFFIC.			1	MERCHANDISE AND MINERAL TRAPPIC.				Othe	Other		Tota	ı		TRAFFIC	TRAIN-MIL	ES RUE.
And the second of the second	Number of passengers.	Coachi			Weight carried.	Receip	ots.		ORLDIB	gs.	•	emrnin	gs.		Coaching.	Merchan- dise	Total
	1 1 1 1 1	Rs.	A. I	P.	Мре, в.	Rs,	Α,	P.	Rs.		Р,	Rs.	٨,	P.	2.0		
Total traffic for the week Or per mile of railway	23,440 273	8,370 97	0 0		63,040 0 733 0	5,620 66	0	0	169 2	0	0	14,150 1,65	0	0	2,577	1,803	4,38
For previous 20 weeks of half-	418,607	1,37,392	0 (0	7,61,880 0	€5,978	0	0	4,232	0	0	2,07,662	0	0	37,015	46,708	83 725
Total for 21 weeks COMPARISON.	442,047	1,45,762	0 (0	8,24,920 0	71,598	0	0	4,452	0	0	2,21,812	0	0	39,592	48,511	88,100
Total for corresponding week of previous year	22.242	7,500	0 (0	18,876	2,575	0	0	6.0	(0 0	10,675	0	0	2,086	1,158	5,28
Per mile of railway correspond- ing week of previous year Total to corresponding date of previous year	209	1,53,218	0 0	1	219 (718,295 0	63,577		0	4,634		0 0	124 2,24,489		0	50,672	27,267	17,000

^{*} Audited up to 9th October 1897.

BENGAL CENTRAL RAILWAY COMPANY, LIMITED.

Approximate Return of Traffic and Mileage for the week ended 27th November 1897 on 125 miles open.

	COACHING	TRAPPIC.	MERCHANDISE TRAF	AND MINERAL	4		1000	TRAIN-MIL	ES RUI
ANNERS STREET	Number of passengers.	Coaching receipts.	Weight carried.	Receipts.	Other earnings.	Total earnings.	Coaching.	Merchan- dise.	Tota
E Balli		Rs. A. P.	MDs. s.	Rs. A. r.	Bs. A. P.	Rs. A. P.		4.510	8,1
Total traffic for the week Or per mile of railway	30,186 241	14,395 0 0 115 0 0	89,031 0 712 0	8,268 0 0 66 0 0	62 0 0	22,655 0 0 181 0 0	3,807	4,538	179,5
For previous 20 weeks of half- year*	607,324	2,46,720 0 0	24,59,254 0	2,38,871 0 0	3,592 0 0	4,89,183 0 0	84,935	94,759	188,6
Total for 21 weeks	687,510	2,01,115 0 0	25,48,285 0	2,47,069 0 0	3,654 0 0	£6,11,888 0 0	88,742	99,296	
The second second	0 3 12 12 16 16	0. F 4 0 1111	1 2 3	E 197 TO THE TREAT BY	4 (1.659)	garin projection projection and	1 1 1 1 1 1 1 1		
Comparison, Total for corresponding week of previous year Per mile of railway correspond-	38,680	14,109 0 0	68,038 0	4,634 0 0	162 0 0	18,905 0 0	3,879	2,001	1
ing week of previous year Total to corresponding date of previous year	794,181	2,36,279 0 0	21,42,252 0	1,99,594 0 0	4,075 0 0	4,39,948 0 0	80,301	72,477	150

^{*} Audited up to week ending 2nd October 1897.

553 0 0

DARJEELING-HIMALA	YAN RAI	LWAY CO	MPANY.	LIMITE	D.			
Approximate earnings for the v Corresponding period of 1896	week ending	27th Nove	mber 1897	*		Rs. 12,418 12,390	0	P. 0 6
Increase	•••	••	***		***	27	11	6
Receipts per mile for the week Ditto for the corresponding	ending 27th period of 1	November 896	1897	***	***	243 242	7	10
Increase		***		***	***	0	8	-8
Receipts from 1st July to 27th Corresponding period of 1896	November	1897	***			3,16,348 3,16,901	-	0
	The state of the s					-,,,-	-	4

Decrease



SUPPLEMENT TO Calcutta Gazette

WEDNESDAY, DECEMBER 15, 1897.

OFFICIAL PAPERS.

[Non-Subscribers to the Gazette may receive the Supplement separately on payment of per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.]

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RESOLUTION ON THE ANNUAL GENERAL ADMINISTRATION REPORT OF THE PATNA DIVISION FOR THE YEAR 1896-97.

GENERAL DEPARTMENT-MISCELLANEOUS.

Calcutta, the 11th December 1897.

RESOLUTION-No. 3694.

READ-

The Annual General Administration Report of the Patna Division for 1896-97.

THE Commissioner's report was not received till the 13th August 1897, forty-two days after it was due to Government. The delay was unavoidable and due to the extra strain upon the District Officers on account of the famine.

Mr. Bourdillon, by whom the present report is submitted, was in charge throughout the year. In four out of seven districts there was no change of District Magistrate, and in three districts not even of Subdivisional Officers.

2. Tours and Inspections.—The Commissioner was 105 days on tour, his

regular programme being much interfered with by the exigencies of famine

work. Of the District Officers, the Collector of Muzaffarpur (Mr. Hare) was unable to spend more than 66 days on tour, owing to the necessity of organising famine work at head-quarters, while among Subdivisional Officers, the tour of Mr. Beachcroft (Samastipur) extended to 73 days only, of which no explanation has been furnished.

The tours of District and Subdivisional Officers generally were adequate. In most districts, however, the requirements of famine work prevented any

organised tour programme.

Weather and Crops .- Throughout the Division the rainfall was both insufficient and ill-distributed. The rains commenced late, and the excessive falls in the beginning of July and middle of August, notably in Muzaffarpur, damaged the bhadoi crop by floods; these alternated with long periods of drought, which withered the rice seedlings and newly transplanted rice. After the middle of September there was no rain until the end of November, when the fall was heavy in South Bihar only. Fortunately the cold-weather rains were favourable, and throughout February and March there were several substantial showers which greatly improved the rabi crop, of which, however, the area sown was below the average. The outturn of all crops suffered greatly and the loss was the more felt, in that the previous year's crops also had been deficient. Speaking generally, the Commissioner estimates the deficiency in each district as a whole on the normal harvests of the year at one-sixth in Patna and Gaya, onefourth in Shahabad, in Saran one-third, Muzaffarpur two-fifths, and Champaran and Darbhanga one-half, but in the distressed areas the loss was even greater. In the distressed districts the outturn of the winter rice is estimated at from $1\frac{1}{4}$ to 5 annas of an average crop. The poppy crop was below the average, and the indigo season was only to some extent saved by the unusually good produce from the second cuttings.

Public Health. - The year was more unlealthy than its predecessor, and the rate of mortality for the Division rose from 30.46 to 38.5 per mille. Cholera and fever in the early months of the year caused a large mortality. especially in Muzaffarpur and Darbhanga. Some of the increase is attributed to better reporting in Patna, Gaya, and Saran, where special efforts were made to secure more accurate registration, but elsewhere it was due to excess of unhealthiness. The increased mortality of the year under review was not due to famine, for in consequence of the exceptionally dry autumn the death-rate in the last three months of the year, when alone increased death rate from famine could have shown itself, was everywhere unusually low, in spite of the prevailing high prices and scarcity. The death-rate was in fact lower than the normal rate

during the period of famine from December 1896 to October 1897.

Material condition of the people. - The scarcity which made itself acutely felt towards the end of the year greatly affected the material condition of the poor classes, though the high prices enabled such as had their crops unmortgaged to realise a larger profit on any surplus produce they had for sale. Commissioner is of opinion that the famine relief operations have established the facts that about 3 per cent. of the population are habitually on the verge of starvation, or rather would be were it not for the intervention of private charity, and that much more grain is stored by the agricultural population than is usually supposed. At the same time the Commissioner points out that the poorer townsfolk, and the poor of the better classes everywhere, have been able to

withstand the prevailing scarcity with very little outside assistance.

6. Emigration and Immigration.—The number of emigrants to the Colonies and the tea districts did not differ materially from that in the previous year, being 1,997 and 834 as against 1,961 and 865, respectively. With regard to the question raised in last year's Resolution as to the reason why emigration from the North-West Provinces and the Central Provinces should be so much greater than from Bihar, where the population is denser and poorer, the Commissioner offers various possible explanations, of which the most likely are the preference of local agents for coolies of the North-Western Provinces on account of their superior physique, the employment offered by the Indigo industry to such classes as would otherwise emigrate, the annual rice-cutting in the Terai and Lower Bengal, and the well-known dislike on the part of the people of Bihar to leave their homes.

7. Prices of food and labour.—Prices which were normal for the first five months of the year began to show the effects of the unfavourable crop prospects early in September, when a continued rise took the place of the fall which usually ensues as the bhadoi crops come upon the market. When the loss of the winter rice appeared certain, prices rose suddenly. After the subsidence, however, of the first panic, they remained steady until the close of the year, although from 80 to 100 per cent. above what they were at its commencement. Wages showed no corresponding increase, though the custom of payment in kind mitigated the pressure of the high prices for a large proportion of the agricultural labourers.

8. Trade and Statistics.—The effect of the prevailing scarcity upon the trade of the Division generally, and that in food-grains in particular, has been

clearly analysed by the Commissioner.

Imports increased by 4.7 per cent. and exports by 4.5.4 per cent. The important part played by food-grains in this result is shown by the fact that whereas in 1895-96 such produce constituted 35.85 and 50.46 per cent. of the total exports and imports, respectively, the corresponding proportions in 1896-97 were 48.78 and 76 11 per cent. During the first-half of the year there were large exports of food-grains, mostly westwards, which converted a net excess of imports over exports of 11 lakhs of maunds in the same period of the previous year into a net excess of 141 lakhs of maunds exported. During the second-half of the year, when it became clear that the crops in Bihar would be a failure, there was a net excess of 62 lakhs of maunds imported, as compared with a net excess of 74 lakhs of maunds exported during the corresponding six months of the preceding year. The import trade in food-grains from Calcutta during the year rose from 292 maunds in 1895-96 to 6,35,178 maunds and continued to increase greatly from the end of the year till the termination of the famine. The Nepalese authorities prohibited exports ion of food-grains to Bihar, but there is no doubt that they were, notwithstanding the prohibition, smuggled across the frontier in large quantities. The river-borne traffic between Bihar and the Nadia Rivers was almost entirely killed by the scarcity.

9. Civil Justice.—The total number of original civil suits disposed of by

9. Civil Justice.—The total number of original civil suits disposed of by District and Subordinate Judges rose from 2,468 last year to 2,595 in the year under report. Those disposed of by Munsifs fell from 39,405 to 38,259. Rent suits disposed of by District and Subordinate Judges fell from 213 to 122

in 1896-97, and by Munsifs from 22,705 to 22,243.

10. Crime.—The number of cognizable offences reported fell from 31,166 in 1895 to 30,056, though, if offences against sanitation are excluded, they rose from 22,278 in the preceding year to 23,099. The number of non-cognizable offences reported was 18,157 as against 19,739 in 1895. The chief increase in cognizable cases was under the head of Offences against property, and the prevailing high prices of food-grains is suggested as a reason, though, as the Commissioner points out, this could only have operated towards the close of the year. In the four northern districts and in the portions of Shahabad where the scarcity was most severe there was a diminution in the number of cases of robbery, but an increase in the number of other offences against

property.

11. Criminal Justice.—There were fewer witnesses examined than in the previous year, and there were more Magistrates sitting, yet the proportion of witnesses detained over two days to those examined was slightly worse—4.8 per cent. as against 4.5 in 1895. The proportion is particularly high in Patna Sadar subdivision (11.01) and Barh (18.13), both of which were unfavourably noticed in last year's Resolution. The percentage in Patna City which last year was very high (16.07 has fallen to 1.44. The percentage of A Forms remanded six times and over to the total number disposed of (6.4) was practically the same as in the previous year. The results are worse in Buxar (31.6), Patna Sadar (17.5) and Barh (18.43). The proportion of decisions upheld on appeal improved, being 80.4 per cent. as against 74.9 per cent. in the previous year. The percentage of Sessions cases ending in conviction remained practically the same (72.7). The Lieutenant-Governor notices with pleasure the excellent work done by Mr. Savage, Collector of Gaya, in introducing the Chaukidari Act (VI of 1870) and in inducing respectable and influential men to act as

members of the village panchayets. The Raja of Deo volunteered to take the post of collecting member of his village panchayet: his offer was accepted, and

he has himself been doing the work.

12. Registration of Documents.—There has been a considerable increase in the number of documents registered during the year, especially of mortgage and sale, which is attributed to the prevailing scarcity. The total number registered was 156,233, an increase of 40,803 and 12,774 over the totals for 1895-96

and 1894-95, respectively.

Land Revenue. The current demand of land revenue Rs 82,22,835 against Rs. 82,33,656 in 1895-96. The decrease was under the head of Estates held direct by Government. The percentage of total current collections on current demand was 96.9. In permanently-settled estates the collections fell below the standard of 99 per cent. in Shahabad (94.79), Saran (98.20), Muzaffarpur (97.68). These were the same three districts that failed to attain the standard last year. It is noticeable that in Shahabad from 19.6 to 22.6 per cent. of the permanently-settled estates in the district defaulted at the various kists, while at the two sales which were held during the year, only 1.4 and 1.3 per cent. of the defaulting estates were actually sold. The excessive leniency in the administration of the Sale law in this district, which was commented on in last year's Resolution, appears still to continue. Special leniency may have been required by the circumstances of the year under review, but the Lieutenant-Governor trusts that arrears will be realised with promptitude during the current year. In temporarily-settled estates and estates held direct by Government, the percentage of current collections on current demand was as follows:--

	Temporarily-settled estates.	Estates held direct by Government.
Standard Patna Gaya Shahabad Saran	 95. per cent. 83·40 " 87·95 " 87·27 " 90·47 "	90· per cent. 74·54 ,, 71·44 ,, 57·77 ,, 74·23 ,,
Champaran Muzaffarpur Darbhanga	 85·22 ,, 83·79 ,, 98·11 ,,	14·56 ,, 78 52 ,,

The results in temporarily-settled estates are generally better, and those in Government estates generally werse, than in the previous year. The short collections in Government estates have not been explained, but were doubtless

due to the prevailing distress.

The total balances outstanding were reduced from Rs. 3,02,810 in 1895-96 to Rs. 2,93,662. On the whole the collections, notwithstanding the scarcity that prevailed during the latter end of the year, were remarkably good, being 96.1 per cent. on the total demand against 96.3 per cent. in the previous year and 99.3 on the current demand against 99.6 in that year.

The Sale law throughout the Division was administered with great moder-

ation, only 4.3 per cent. of estates liable to sale being actually sold.

As the result of the scarcity during the year, Rs. 1,15,740 were advanced under the Land Improvement Loans Act, XIX of 1883, chiefly in Gaya; Rs. 1,42,062 under the Agriculturists' Loans Act, XII of 1884, chiefly in Champaran, Saran, Muzaffarpur and Shahabad; and Rs. 17,315, chiefly in Saran, under the modified rules issued with Government Notification No. 69Fam. of 5th January 1897.

Wards' and Attached Estates. - There were two estates taken in charge and three released during the year; while one estate released was again taken under control within the year. The most important estate which came newly under the Court of Wards was that of Hatwa in Saran.

The total rent and cess demand due to the 23 estates under the Court's charge amounted to B. 2012.066

charge amounted to Rs. 20,12,066 arrear and Rs. 17,27,523 current. As pointed out in last year's Resolution, therefore, the arrear demand is still in excess of the current demand, and it has not been reported what effect has been

given to the orders of Government for the classification and remission of arrear balances. Mr. Stevens hopes that due attention will be given to this subject during the present year. The percentage of total collections on total demand fell from 44.4 to 36.3 per cent, in the present year. Leniency had to be shown to the raiyats on account of the unfavourable harvests.

The total expenditure on improvements amounted to Rs. 1,46,576, including Rs. 57,910 on account of maintenance of buildings, &c., and Rs. 43,458 as survey and settlement charges. Of the 21 estates under management in both this and the preceding year, 14 show an increase and 7 a decrease in expenditure under this head. The most noticeable decrease is in the Tikari and Narhan Estates, where only Rs. 66,271 and Rs. 9,962 were spent as

compared with Rs. 99,503 and Rs. 11,187 in the previous year.

The decrease has not been explained, neither has it been clearly stated what effect, if any, has been given to the orders contained in Government Resolution No. 895T R. of 9th October 1896 on the necessity for a larger expenditure on agricultural and sanitary improvements in solvent estates. The expenditure classified by the Commissioner as cost of improvement of land and property amounts to Rs. 31,388, or 1.8 per cent. only on the total current rental of Rs. 17,27,523.

15. Excise, Stamps and Income-tax.—The excise revenue, which has been steadily increasing during the last five years, received a check, and fell by more than a lakh of rupees from Rs. 27,38,250 in 1895-96 to Rs. 26,34,807. The largest decrease was under the head of Country spirit, chiefly in the Gaya district. The opium revenue increased by Rs. 4,180. The total revenue derived from stamps amounted to Rs. 22,56,010 against Rs. 21,37,468 in 1895-96. The increase was largest in court-fees and non-judicial impressed stamps. Prosecutions under the Stamp Act numbered 31 only against 142 in the previous year. This large decrease, notably in Saran, has not been explained. The income-tax demand slightly increased and collections improved, the standard of 95 per cent. being reached in all districts.

16. Monetary arrangements.—The expectation that the extensive circulation of Government copper coin during the famine relief operations would help to displace the Lohia and Gorakhpuri pice which circulate in the Division was not fulfilled, and the Commissioner is of opinion that the provisions of the

Metal Tokens Act have had no perceptible effect.

17. Railways and other Public Works.—Land acquisition proceedings were in progress on the Moghalsarai-Gaya Railway, and the earthwork in the Gaya district of the South Bihar Railway was nearly completed. The construction of the line from Hajipur to Katihar viâ Begumsarai was started, and two new projects in the Champaran district surveyed for lines from Bettiah to Bagaha viâ Shikarpur and from Bairagnia to Shikarpur. Progress was made in the construction of the Segoulie-Raksaul lines, while in Darbhanga earthwork on the Sakri-Jainagar line was commenced during the year and has been almost completed since its close.

18. Canal irrigation.—There was a large increase in the area irrigated from the Sone Canals, which amounted to 522,143 acres, as compared with 369,727 in 1895-96. The collections amounted to Rs. 9,58,925, or 99.02 per cent. of the demand, against Rs. 6,69,045 in the previous year, and the results generally are, as the Commissioner remarks, extremely creditable to the Superintending Engineer, Mr. Buckley, and his subordinates, and to the Deputy Collector Maulvi Syed Nasir-ud-din. The area irrigated from the Madhubani Canal in the Champaran district increased similarly from 3,919 acres in 1895-96 to 11,251 acres.

19. Communications.—There was a decrease in expenditure of the District Boards in the Division under the head of "Public Works" of more than a lakh and-a-half, as many works provided for in the budgets had to give way to the claims of famine relief, but it is to be remembered that famine relief

work in many instances took the form of earthwork on roads.

20. Education.—The total number of schools in the Division decreased from 6,591 in the previous year to 6,431, but the Lieutenant-Governor notices with pleasure that, notwithstanding a falling off in the number of pupils in some parts owing to scarcity, the aggregate number of pupils in the Division rose from

176,107 to 178,011. The proportion of boys attending school to those of a school-going age increased from 15.3 to 15.5 per cent., varying from 31.2 per cent. in Patna to 11.3 in Champaran. There was a decrease in the number both of girls' schools and of pupils. The expenditure by District Boards on account of primary education was somewhat less than in the preceding year, amounting to 9.7 per cent. of their total income as against 10.9 per cent. The proportion was lowest in Darbhanga (7.6) and Shahabad (8.8). The proportionate

expenditure by Municipalities was 3.6 per cent., as in 1895-96.

21. Dispensaries and Hospitals.—Two new dispensaries were opened in the Division during the year, making a total of 61. Their aggregate income amounted to Rs. 1,87,748, of which 46.1 per cent. was derived from subscriptions. tions: 3.8 per cent. of the population were treated as out-patients, the total number of out-door patients being less than in the preceding year, though

on the other hand the number of in door patients increased.

22. Local Self-Government Institutions.—The municipal general election was held on 13th March 1897. The number of municipalities remained unaltered. The total receipts rose from Rs. 6,30,655 to Rs. 6,48,811, and the expenditure from Rs. 6,19,874 to Rs. 6,86,914, but the receipts include a loan of Rs. 40,000 taken by the Darbhanga Municipality, and the expenditure, an investment by the Patna Municipality of Rs. 50,000, the balance of a loan.

The want of a scheme for flushing the drains of Patna town has been seriously felt, and satisfactory experiments have been carried out with the view of obtaining the necessary water-supply. The Municipality of Arrah is still unable to supply its pressing wants of drainage and conservancy for want of funds. Owing to the incompetence of the Chapra Municipality, the condition of the town has become most insanitary, but it is hoped that there will be an improvement under the new Commissioners, who have elected the Magistrate as Chairman. The affairs of the Darbhanga Municipality are in extreme disorder which it will take time to remedy.

The Commissioner reports that the District and Local Boards worked smooth-Their total income amounted to Rs. 16,73,820 as against Rs. 16,94,495 in 1895-96, but the expenditure rose from Rs. 16,80,144 in 1895-96 to Rs. 18,24,186. The increase is largest in the Darbhanga, Muzaffarpur and

Saran districts, and is due to the expenditure on famine relief.

23. Employment of Muhammadans .- As in the previous year, the Muhammadans who number only 11.32 per cent. of the total population held more than that proportion of appointments of all classes. The percentage of such appointments held by them was 30.9 against 31.3 in 1895-96. The decrease was accidental, and was in the class of menial appointments only.

24. Post Offices and Telegraphs .- There has been an increase of 77,127 in the number of money-orders paid in the Division and of nearly ten lakks in amount. The increase, notably in Saran, Shahabad and Gaya, is attributed to the home remittances of absentees who had emigrated in larger numbers than

usual on account of the scarcity.

25. State of Public Feeling .- Public attention throughout the season was concentrated on the prospects of the crops and the price of food. The Commissioner observes that, while ordinarily well-informed Native gentlemen appeared ignorant of the relief organisation beyond their immediate neighbourhood,

the masses generally appreciated the efforts of Government on their behalf.

26. Conduct of Zamindars.—The Commissioner draws attention to the generally reported fact that the ordinary native zamindars of the Division during the time of scarcity did little for the benefit and protection of their raiyats. He adds, however, that as they paid their revenue and cesses with punctuality, most of them found it difficult to meet their obligations, and had little left for benevalence. A conspicuous exception was the Maharaja of had little left for benevolence. A conspicuous exception was the Maharaja of Darbhanga, who has expended money most freely in importing grain, making advances and organizing both relief works and gratuitous relief. The Court of Wards, who assumed charge of the Hatwa Estate on the death of the Maharaja, also incurred large expenditure on relief. The Commissioner observes that the Indigo Planters have as a body shown great liberality to their tenants and have rendered much assistance to Government in the administration of relief.

27. Famine Relief.—The Commissioner has given an interesting summary of the famine relief operations conducted during the year. The Lieutenant-Governor has already placed on record his high appreciation of the manner in which the relief operations have been conducted in the Patna Division, and the Government of India have expressed their hearty concurrence in his opinion. As a separate final report will be submitted on the whole course of relief operations in the Province, and the bulk of relief operations did not come within the year under review, it is not necessary to deal with the matter here at greater length.

28. The thanks of the Lieutenant-Governor are due to Mr. Bourdillon for his able administration of the Division during a year of exceptional difficulty and for his clear and concise report from which extracts are published for general information. Mr. Stevens desires also to thank the Collectors and the other officials for the diligent and generally efficient discharge of their ordinary

duties notwithstanding the heavy pressure of famine work.

By order of the Lieutenant-Governor of Bengal,

M. FINUCANE, Secretary to the Govt. of Bengal. and distributed to the publisher and it is the property of the

Extracts from the Annual General Administration Report of the Patna Division for the year 1896-97.

III .- WEATHER AND CROPS.

17. This was the one subject which, throughout the greater part of the year has occupied the careful attention of all Revenue officers in the Division. The following figures give the rainfall at each Sadar station month by month, as compared with the normal fall and the totals for 1895-96.

Rainfall, 1896-97.

		PATE	NA.	GA.	YA.	Sнана	ABAD.	SARA	AN.	Снамр	ARAN.	MUZAFF	ARPUR.	DARBE	LANGA.	AVER. P.	PATNA VISION.
Mon	TH.	Actual.	Normal.	Actual.	Normal.	Actual.	Normal.	Actual.	Normal.	Actual.	Normal.	Actusl.	Normal.	Actual,	Normal.	Actual.	Normal.
g Kao	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
April	1896	 Nil	0.26	Nil	0.12	Nil	0.15	0.03	0.50	Nil	0.25	Nil	0.25	0.03	0.20	0.65	03
May	,,	 0.79	2.00	0.27	1.45	0.28	1*03	0*79	1.77	1.022	2.66	2.67	2:23		2.23	0*82	19
fune	,,	 7*19	6.98	8:34	5'60	6.78	5.47	2.68	6'94	4.04	10.15	9-29	7*40	5.11	7'41	5*74	71
July	,,	 8-97	12:20	10.44	12.11	9-69	11.69	8.78	19*14	10.22	13.76	18-95	12:39		12.47	6 92	12:3
August	,,	 10.02	11.52	10-91	-11:84	10:44	12.26	8-76	10.89	9'45	13-22	11*22	11.12	10.03	12.91	8:52	111
September	.,	 3.70	7.09	3.93	6.42	2.30	6-83	1.58	7.60	2.32	9.20	2.93	7.57	6*21	9*91	2*82	71
October	"	 Nil	2*95	Nil	2.31	Nil	2.87	Nil	3*49	Nil	3.31	Nil	2.64	0.03	2.10	0*04	3
November	"	 0.21	0-22	0.71	0.53	0.97	0.32	0.06	0.26	0.04	0.12	0.16	0.13	0*47	0.11	0.39	01
December		 0-29	0.08	0*44	0.18	0.39	0-22	0.47	0.15	0:39	0.16	0.50	0.00	0*12	0:08	0*36	01
January	1897	 0.02	0.65	0.09	0.64	0.03	0.67	0.12	0.72	0.42	0.73	0.00	0.74	0.16	0.78	0.13	0"
Pebruary	**	 0.84	0.63	1.53	0.63	1.27	0.24	0.30	0.21	0.13	0.49	0.47	0:47	0.58	0.42	.0*59	0
March	,,	0.56	0.42	0.90	0.20		0:41	0.24	0.30	1.68	0.45	3*24	0.43	1.20	0.40	0.81	0
Total for 18	896-97	 33:37	44.75	37*26	42*09	32'12	42.46	23*90	44'94	50-60	55'10	47.22	45.75	24.03	49.74	27:16	4
Total for 1	1895-96	 36 31	42.84	32*73	48:16	38.85	41.85	44.47	44.55	58:33	49.55	48*62	46.09	42.76	47'86	43'15	4

The figures really tell their own tale, and I need not treat the well-worn subject at great length. The cold weather rains of 1895-96 were very short, and, taking the Division as a whole, they averaged only 0.17 of an inch, instead of an inch and-a-half, so that the rabi was a poor crop.

18. In 1896-97 the rains were very late, not commencing till the last week of June, though there were light showers in May; the first burst was followed by very heavy rain early in July, and then by two long periods of drought, lasting till the middle of August and the middle of September, respectively; after the latter date no rain fell till the time of the Sonepur camp (November 22nd) when there was a fall, which was heavy only in South Bihar and along the north bank of the Ganges. During the cold weather scattered showers fell from time to time, and there were substantial falls in Christmas week, on the 10th, 11th and 12th of February, on the 22nd, 23rd and 24th

March, and again on the 28th and 30th of the same month. This rain was of enabling catch crops to be grown such as also and aking the rabi, and in

19. The effect of weather such as that just described, which was characterised by rainfall ill-distributed as well as insufficient, was to produce floods at first (especially in Muzaffarpur) which did a good deal of damage to the bhadoi: the long intervals of drought scorched much of what had escaped the floods, and left the rice seedlings to wither in the seed beds or in the fields where they had been transplanted. Over a large area there was no transplantation of rice at all, and the complete absence of the rains from the middle of September to the end of November, destroyed a large proportion of what had been transplanted. Moreover, there was not sufficient moisture for sowing the rabi on the uplands, and although much low land, ordinarily too wet for rabi, was sown, yet even so the usual area under this crop was much curtailed. Where the rabi had been sown, the frequent showers during the cold weather kept it alive, and the winter crops turned out much better than had been at first expected. The rahar and the mustard were exceptionally fine. The outturn of all three crops in each district for the year have been estimated as follows by the Director of Land Records, following the reports of district officers:—

DISTRICT.	Bhadoi.	Aghani.	Rabi.
1	2	3	4
Patna Gaya Shahabad Saran Champaran Muzaffarpur Darbhanga	 10 12 7 6 8 5½ 104	10½ 8 4 1¼ 3½ 3 5	113 16 9 1113 113 12 141

20. As the proportion borne by each crop to the whole crops of the district varies a great deal from district to district, the above figures do not give a fair idea of the relative loss of the whole year's crops. Speaking very generally, however, it may be said that the deficiency in each district on the normal harvests of the year was much as follows:—Patna and Gaya one-sixth, Shahabad one-fourth, Saran one-third, Muzaffarpur two-fifths, and Champaran and Darbhanga one-half. The deficiency has been met partly by large importations, partly by the production of hoarded stocks, and partly by spontaneous abstinence and reduction in consumption.

21. For the poppy the year was not unfavourable. In Patna the crop was nearly up to the average: in Gaya it was a little less than in 1895-96, which was a very good year, but a good deal more than in 1894-95: in Shahabad the crop is returned as representing 14 annas: for Saran no estimate in annas is given by the Collector, but the produce was rather more than in the previous year, and much less than in 1894-95, probably a 10-anna crop: in Champaran the area sown was much smaller than usual, and the result very poor, only 2,361 maunds being produced against 4,025 in 1895-96 and 5,318 in 1894-95. The Collector of Muzaffarpur does not notice the subject, while the Collector of Darbhanga says that in his district the crop was up to a full average. On the whole, it may be said that the crop was not up to the average, owing to want of moisture at first, so that poppy grown on unirrigated lands came to little. In South Bihar, where the rainfall was better and well irrigation is largely practised, the crop was somewhat better than it was north of the Ganges.

The general statistical results for the Division are given in the following table:—

+ (2) HTM (2)				PAYMENTS TO	CULTIVATORS-		
Season.	Estimated produce.	Actual outturn.	On account of opium.	On account of leaves.	On account of trash.	Total.	Remarks.
1	2	3	4		6	7.	
1894-95 1895-96 1896-97	Mds. 35,231 26,424 26,430	Mds. s. ch. 30,134 14 51 27,804 30 51 25,115 35 91 3	Rs. A. P. S1,60,000 0 0 0 74,40,000 0 0 0 67,20,000 0 0 0 0	Rs. A. P. 56,000 0 0† 60,200 0 0 63,000 0 0	Rs. A. P. 6,375 0 0 4,875 0 0† 5,625 0 0	Rs. A. P. 82,22,875 0 0 75,05,075 0 0 67,88,625 0 0	*Gross produce ascertained at weighments, Approximate estimate calculated on 31,000 maunds damdetta opium, on 8,600 maunds leaves, on 13,000 maunds trash. † Gross produce ascertained at weighments. § Approximate estimate calculated on 25,000 maunds damdetta opium, on 9,000 maunds leaves, and on 13,000 maunds rash.

22. At one time it looked as if the season of 1896-97 would be an extra ordinarily bad one for indigo, but although the early drought prevented the satisfactory growth of the plant, yet the heavy rain early in July followed by brilliant sunshine completely altered the prospects of the crop and a fairly good outturn was secured especially in Champaran and Darbhanga. Second cuttings were in many cases better than the first cuttings.

V.-MATERIAL CONDITION OF THE PEOPLE.

28. In my report last year I stated that, in the absence of great calamities, there was little difference in the condition of the people from one year to another. This year the scarcity which has overtaken the Division has of course greatly reduced the material condition of the masses: the failure of food crops noticed in paragraph 19 above, and the rapid rise of prices since October last over the whole of Northern India, have necessarily fallen very heavily on so poor and so dense a population as that which inhabits the Patna Division, and large numbers of them have been driven to seek gratuitous relief, and to go on to relief works. On the 5th June 1897, when the numbers on relief of all kinds was at its highest, the total was 733,850, or 9.7 per cent., of the population of the affected area, but it need hardly be said that in so widespread a calamity the whole population suffer. On the other hand it must be remembered that for the comparatively few who have had good crops, especially the cultivators of South Bihar, the high prices at which their surplus produce was sold brought them substantial profits, unless indeed it was already hypothecated to the mahajans, as it undoubtedly was in many cases. The famine relief operations, however, seem to establish two main points in connection with the material condition of the people, which are these: firstly, that about 3 per cent. of the population are always on the verge of starvation, and secondly, that much more grain is stored by the agricultural population than is generally supposed. The first point is proved by the rapidity with which the figures for gratuitous relief mounted to a certain level as soon as the local organization for relief was complete, coupled with the fact that all who were in receipt of gratuitous relief were found by all observers to be in absolute need of it. The second point is established by the circumstance that though imports of grain have been large, they have been quite insufficient to make up the deficiency between the out-turn of the present year, and that which the population, according to a very moderate calculation, require for their support: as, however, there have been few or no cases of death from starvation, it is clear that the greater part of the unexplained balance must have been in the hands of the people themselves and of the local grain-dealers and zamindars. Another point is the remarkable

manner in which the poorer classes of townsfolk, and the genteel poor everywhere, have managed to weather the storm with very little outside assistance.

VI .- EMIGRATION AND IMMIGRATION.

29. The following table shows the number of emigrants registered during the last two years in the several districts of this Division:—

NAME OF DIST	PICT	For the	colonies.	For the te	a districts.
	RICI.	1895-96.	1896-97.	1895-96.	1896-97.
1		2	3	4	5
	1	SHAP LAND BY			
Patna		593	355	·	
Gaya				381	720
Shahabad		1,234	1,482	484	114
Saran		126	160		
Champaran		8			
Muzaffarpur					•••
Darbhanga				•••	
Total		1,961	1,997	865	834

30. The decrease in Patna is reported to be due to the Emigration Agent not requiring coolies for embarkation to the colonies, and to recruitment thus ceasing for a time. In Gaya the Magistrate says no exact statistics are available in regard to free emigration to the tea districts, but the enquiries which have been made indicate that, as compared with the preceding year, it was of small moment, the number so recruited being given as only 70, including 16 dependents, against 101 in the preceding year. The falling off may account for the increase in registered emigration. The increase in colonial emigration in Shahabad may be ascribed to impending scarcity and prices, and the decrease in inland emigration is partly due to the small number of garden sardars who worked in the district during the year. Of the 160 emigrants registered for the colonies in Saran, only 32 belonged to the Saran district, and the rest were from the North-Western Provinces and Oudh.

31. The number of coolies recruited from the North-Western Provinces and the Central Provinces is said to exceed those recruited from Bihar. My attention was drawn to this question in paragraph 6 of the Government Resolution on my last year's report, in which it was asked why the number of registered emigrants from Bihar is decreasing, and why it was that the great majority of emigrants who pass through Calcutta for the tea districts and the colonies are natives of the North-Western Provinces and of the Central Provinces, where the population is neither so dense nor so poor as in Bihar. It is difficult to assign any specific reason for the decrease in registered emigration from Bihar and for an increase from the North-Western Provinces and the Central Provinces; but from enquiries made by me it appears that the following are some of the reasons:—

(a) The local agents give preference to the people of the North-Western Provinces and the Central Provinces over the Biharis, as they are of better physique.

- (b) Closer supervision is said to be kept over the coolie depôts in Bihar than in the other provinces.
- (c) The indigo industry in North Bihar employs a larger number of the emigrating classes.
- (d) An annual exodus from the three frontier districts to the Nipal Terai at the time of dhan cutting also gives employment to many, not to speak of the large numbers who go annually to Bengal for the cold weather from Saran, Muzaffarpur and Shahabad.
- (e) In Bihar there are three harvests-the aghani, bhadoi, and rabithough the population is denser in Bihar, the proportion of land under cultivation is larger than in the North-Western Provinces.
- (f) Much depends on custom and the relative characteristics of the people who, in Bihar, generally prefer work nearer home.
- 32. There was free emigration from the Jugdispur Estate in Shahabad, belonging to Messrs. Mylne & Co., to their grant in Burma.
- 33. There were no complaints during the year in regard to the system of recruiting. The coolie depôts in the different districts were regularly inspected. In Shahabad five depôts were summarily closed, as the District Magistrate found they did not comply with the rules laid down by Government as regards ventilation and space for the coolies. In an inland emigration depôt at Arrah there were two cases of cholera, but the patients were provided with medical treatment and recovered. The agent was, however, prosecuted for not reporting the outbreak of the disease, and was convicted and sentenced to pay a fine of Rs. 100, and the depôt was closed, as it was in a most insanitary condition. It is reported that on the whole the condition of the coolie depôts in the Division is satisfactory.
- 34. There is practically no immigration into this Division, but in this particular year there has been a good deal of wandering of hungry people in search of work or relief from the North-Western Provinces into Champaran and Sara

VII.-PRICES OF FOOD AND LABOUR.

35. This subject, which in most years is one of commonplace interest, has this year been invested with absorbing importance. Appendix III furnishes figures showing the prices of the common food-grains and salt at the end of the last three years, and a glance at that will show how wide the difference is between prices in March 1897 and those in the two previous years. I also give here a statement which shows the price of common rice, wheat and maize on the last Saturday of each month in the year.

Statment showing the number of seers of common rice, wheat and maize to be purchased for one rupee in the several districts of this Division on the last Saturday of each month in the year 1896-97.

		1	PATNA.		, in the	Gaya.		Sn	(AHABA)	D4	[[ARAN	
T	ATE.	Common rice.	Wheat.	Maize.	Common rice.	Wheat.	Maize.	Common rice.	Wheat.	Maize.	Common rice.	Wheat.	Maize.
41	1	2	3	4	5	6	7	8	* 9	10	11	12	13
April May June July August Septembe October Novembe Decembe January February March	31st r 28th r 26th 30th	20 17½ 17 17 14½ 12½ 9 10 10½ 10½ 11 10½	15 15 14 14 13 10 8 8 9 4 9	, 12 13 11 ³ / ₄ 11 ¹ / ₉	15 ¹ / ₂ 15 14 13 ¹ / ₂ 12 10 8 ¹ / ₂ 9 ¹ / ₂		 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	15 15 14 14 12 12½ 8½ 10 9½ 10 9½ 9½	13 14 13 13 13 11, 9 81 81 81 9	 12 12 12 12 11 10	16 16 15 15 13 11 9 9 9 4 8 18 9 9 1 9 1 9	 11 10 81 9 81 8 8 8 10	26 20 18½ 19 16 18 12 12 11 9-1 10⅓ 10⅓

Shanden Jenanda	Cı	HAMPAR	AN.	Mt	ZAFFAI	PUR.	D	RBHAN	GA.	Titras ar m
DATE.	Common rice.	Wheat.	Maize.	Common rice.	Wheat.	Maize.	Common rice.	Wheat.	Maize.	REMARKS.
deathroma ei po Meach air eichea	14	15	16	17	18	19	20	21	22	23
April 25th May 30th June 27th July 25th August 29th September 26th October 3!st November 28th December 26th annary 30th Jebruary 27th Jebruary 27th Jarch 27th	171 171 171 171 131 14 11 9 91 14 11 9 91 8	$\begin{array}{c} 12\frac{1}{9}\\ 15\frac{1}{9}\\ 14\frac{1}{2}\\ 14\\ 12\\ 10\frac{1}{9}\\ 9\\ 9\\ 8\frac{5}{16}\\ 8\frac{1}{16}\\ \end{array}$	$\begin{array}{c} 24 \\ 28 \\ 22 \\ 22^{\frac{1}{2}} \\ 17^{\frac{1}{2}} \\ 20^{\frac{1}{2}} \\ 14 \\ 12 \\ 13^{\frac{1}{2}} \\ 11 \\ 10^{\frac{1}{16}} \\ 9^{\frac{13}{16}} \end{array}$	14 13 13 13 11 10 8 61 8 8 8	15 14 13 13 11 10 8 8 8 8 10 9 9	25 21 20 20 18 19 12 12 12 11 12 	18 17 ¹ / ₂ 17 15 14 ¹ / ₂ 11 10 10 ¹ / ₄ 8 ³ / ₄ 9 ¹ / ₂ 9 ¹ / ₂	 9 8 8 7 7 6 ¹ / ₃ 8 ¹ / ₂	28 22½ 23 25 22 11½ 11¾ 10 9½ 9	

The progress of events is very clearly marked in this table. year opened with normal prices which rose slowly, as is always the case, up till about the end of August, when they usually fall gently again with the incoming of the bhadoi harvest. In 1896 there was no fall in September; on the contrary, owing to the considerable failure of the bhad i, the rise continued: early in October, when the absence of the hathiya rains made the loss of the aghani rice a certainty, prices rose suddenly everywhere, partly because cultivators held on to their stocks, partly because brokers began buying largely for export to the North-Western Provinces, and partly because it was not exactly known what stocks were in the districts. In November there was in many cases a slight recovery, and since that time, thanks to the good prospects of the rabi and to large importations, the price of grain, though for the most part rising gently, has shown no sudden oscillations, and panic has not reappeared. Since the close of the year the same steadiness has prevailed, and I have no doubt that prices will rise gradually till the end of August, when, if a good bhadoi is reaped, they should grow easier, though there can hardly be a return to normal conditions till the aghani rice is cut in November. It will be observed that prices at the end of the year were from 80 to 100 per cent. above what they were at its commencement,—a fact which is eloquent of the distress caused to all who live on fixed incomes or on charity, or who are paid in cash for their labour.

The cash wages of labour show little signs of increase. majority of labour in this Division, i.e., almost all of an agricultural character, is paid in kind, and immemorial tradition has fixed the amount thereof, so that the high prices of grain hit less hard than might have been expected a considerable section of the population who either live on their stores or are paid wages in kind. The wages paid on relief works were based on the current prices of the commoner kinds of grain, so as to allow each person who did a fair day's work to earn enough to support life on some cheap, coarse grain. In Patna, and doubtless in other large towns, the coolies and daily labourers stood out for a small increase in wage to meet the increased cost of food, and for some months all of the worst paid Government servants, and most servants in private employ, have been receiving some kind of compensation for dearness of grain.

IX.-TRADE AND COMMERCE.

43. The statistics under this head for the year under review have been compiled in accordance with the instructions contained in Statistical Department circular No. 1 of the 20th April 1896. Orders have since been received (viz. Statistical Department circular No. 103 of the 22nd July 1897) requesting that the trade statistics of the Division may be compiled in the form used by the Commissioner of Burdwan in his Annual Report for 1895-96, but I regret to say that these orders arrived too late for effect to be given them this year; they

will be carried out when my next report is submitted. It is to be noted further that in all the statistics in this Chapter traffic between different districts in this Division has been eliminated. The result is that the totals represent the foreign trade of the Division as a whole, but the details for districts do not represent the total trade for each district, and therefore they will not tally with district trade statistics to be found elsewhere, and by so much they fail to show the real trade of each district.

44. A statement now given as No. XXXV in the appendix, in accordance with Government orders on my report of last year, shows the up and down import and export traffic in 24 chief articles of commerce, which has been recorded in the several districts of the Division as carried(1) by roil, (2) along the Nadia rivers, and (3) by canal during the year. They also include the trade with Calcutta, but not that with Nepal, which is shown separately below. In the similar statement in last year's report (paragraph 76) the figures for Calcutta trade were wrongly omitted; and in order to make comparison easy, I have corrected the error and have reproduced the total figures for 1895-96 at the end of the statement.

45. An abstract of this trade, district by district, is shown below in thousands of maunds:-

and the second	IMP	ORT-	Exp	ORT-	To	PAL.	70.4.1.
District.	Up.	Down.	Up.	Down.	Imports.	Exports	Total trad
11 1	2	3	4	6	6	7	8
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Gaya Shahabad Saran Champaran	39,46 6,03 12,69 14,21 5,88 12,19	2,17 66 46 3,13 9 40	17,38 2,35 6,63 1,66 72 92	16,86 1,98 3,81 2,26 2,28 3,70	35,63 6,69 13.16 17,34 5,97 12,59	84,24 4,33 10,34 3,81 3,00 4.63	69,87 11,02 23,49 21,16 8,97 17,21
Doubleanes	17,03	28	2,87	8,34	17,31	11,21	28,52
Total .	1,01,49	7,19	32,32	39,23	1,00,68	71,55	1,50,28

Taking the Division as a whole, its trade amounted during the year to 1,80,23,000 maunds, of which imports were 1,08,68,000 maunds and exports 71,55,000. Looking at these figures from another point of view, it appears that the dealings of the Division with the North-Western Provinces and the west of India (columns 3 and 4) are represented by 39,60,000 maunds and with Calcutta, Bengal, and the east (columns 2 and 5) by 1,40,63,000 maunds. Patna, as usual, shows the largest trade and Champaran the smallest.

46. The significance of these figures, however, is not fully apparent till they are placed beside those of the previous year. Such a comparison will show what the double effect of the scarcity has been on the trade of the Division, chiefly of course through the medium of food-grains. The statement in the

	104	1895-96.	1896-97.	Difference.
1		2	i. e. 3 (13)	4
Imports—		Mds.	Mds.	Mds.
Up Down	=	96,80,613 7,00,467	1,61,49,843 7,19,204	+4,69,230 +18,737
Total	[1,03,81,680	1,08,69,047	+4,87,967
Exports-		14.6	1.141.7	
Down		15,82,625 33,36,595	32,31,587 39,22,580	+16,48,962 +5,85,985
Total		40,19,220	71,64,167	+22,34,947
Total trade Net trade		1,53,00,300 1+54,61,860	1.80,25,214 I+37,14,880	+27,22,914

less by 17,46,980 maunds than it was in 1895-96, but the volume of trade

increased by 27,22,914 maunds.

47. How greatly these figures are due to the traffic in food-grains I now proceed to show. Turning first to total imports, we find that whereas in 1895-96 out of the total imports (1,03,81,080 maunds), only 52,38,972 maunds, or 50.46 per cent., were food-grains; in 1896-97 out of a total import of 1,08,69,047 maunds they account for as much as 82,73,222 maunds, or 76.11 per cent. Next, as to exports, in 1895-96 the total was 49,19,220 maunds, of which 17,63,644, or 35.85 per cent., were food-grains. In 1896-97 the exports increased to 71,54,167, maunds or by 45.43 per cent.; and of this amount 34,90,474 maunds were foodgrains, equivalent to 48.78 per cent. of the whole. Further information on this subject is given by the statement below, which shows in what grains the greatest fluctuations occurred, and in what direction both imports and exports travelled:-

Statement comparing the Food-grain traffic in 1895-96 and 1896-97 (in thousands of maunds).

			Імро	erts—				adama Garaga	Expo	RIS-		
KIND OF GRAIN.	U	p.	Do	wn.	To	tal.	U	р.	Do	wn.	Total.	
	1895-96	1896-97.	1895-96	1896-97.	1895-96.	1896-97	1895-96.	1896-97.	1895 96.	1896-97.	1895-96.	1896-93
1	2	3	4	5	6	7	8	9	10	11	12	13
dy eat n and pulse er food-grains	15,57 3,30 1,50 67 3,62	26,01 5,56 38 1,16 7,35	77 6 70 26 1,24	41 4 50 5 80	16,34 3,35 2,20 93 10,96	26,42 5,60 88 1,21 8,15	1,17 18 52 3,13 3,61	2,98 54 47 15,58 7,25	40 1 38 6,82 1,37	27 5 73 5,56 1,44	1,58 19 90 9,96 4,98	3,25 59 1,20 21,14 8,69
Total	21,67	40,46	3,03	1,81	27,79	42,27	8,62	8,62	9,00	8,07	17,63	34,90

It is clear that in the year under notice there was an immense increase in exportation to the west, the traffic more than trebling itself, and this great advance occurred chiefly under the head of gram and pulses: exportation to Bengal, on the other hand, fell off. Obviously this represents large despatches to the North-Western Provinces before scarcity was anticipated or declared in Bihar. On the other hand, the imports did not increase in early so great a ratio, the main advance being in rice and paddy from the east, and in other food-grains, which comprise the small millets and the cheaper kinds of grain. The down imports, i.e., those from the west, fell off greatly as was expected.

48. Into district figures I do not consider it necessary to go at any length, partly because this is a divisional report, partly because the review could not be complete since inter-district figures are not given in the foregoing tables, and partly because I am unable, for reasons stated above, to institute a comparison between the figures of 1896-97 and those of 1895-96 without wholly recompiling the district figures for the earlier year. I give, however, the following table, which shows the figures for some of the principal articles of commerce district

by district:-

thousands of maunds.

こうこう というない こうかい こうかんしょう こうかんしょう			RTO	RICE AND PADDY.	1.0	A STATE OF	The same of	-56			WHEAT	T.					GRAM	I AND I	AND PULSE.		
DISTRICES.		IMPORTS.			Exports.		Balance	-	IMPORTS.	50.	123	Exports	141	Balance for (+) or	-	IMPORTS.	(1) Ja (1 - 1) (50/8)		Exports.		Balance for (+) or
	Up.	Down.	Total.	Up.	Down.	Total.	against (-) the district.	Up.	Down.	Total.	Up	Down.	Total.	against (-) the district.	Up.	Божп.	Total.	Up	Down.	Total.	against (-) the district.
1	61	8	•	10	9	4	80	6	0.	п	12	13	2	15	16	11	-81	19	500	21	83
Patna Gaya Shahabad Saran Champaran Muzaffarpur Darbhangs Garbhangs Garbhangs Garbhangs Gaya Gaya Gaya Gaya Gaya Gaya Gaya Gay	20.00 E. C.	61 00 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5,71 3,70 3,70 1,56 3,83 3,83 3,45	ិត្ត និង	20-0	4.88822	#24295E # + + + + + +	2 : 1° 1.0°	Less & Les	2004 -11	81-2-1-8	e 654 801	16313	++1+1++	46 3 11 13 38 38 38 38 38	121 6	44 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	3,75 250 250 250 250 250 250 250 250 250 25	8 8 8 4 4 3	14.75 7.54 82.58 4.78	1 1 + + + 8 1 2 2 3 3 4 4 4 4 4 4 4 4
Total	28,56	2	29,00	3,51	88	3.84	+25,16	98	20	88	48	73	1,21	1.35	4,33	9	4,39	15,58	5,55	81,18	- 16,74
		er een w		OTHER FOOD-GRAINS.	GRAINS.		d inte	A 111	15,3	1.1	LINEBRD.	ED.	pc 278				Mr	MUSTARD S	SERD.		
Patna Gaya Shababad Saran Champaran Musaffar pur Darbhanga	282 1,50 1,1 1,46 3,31	= P	88888 778	77,8 6 8 1188,1	10. H 84 8 8 E	2. cc 8 cc 2.	+++++ 20 20 1,43 1,65 1,65	7	1,03	1,03	HIIIII	9,13 1,00 1,46 1,72 2,67 4,46	9,13 1,00 1,16 1,16 1,72 4,46	8,1111,24 8,1111,24 8,8,8,8	° ° °	91 00	ø 60 . 0	7 (1111)	81 85 82 82 82 84 11	82,1 81,0 81,2 82,2 83,4 84,1	1,1111. 814. 814.
Total	7,86	7.9	8,15	7,26	1,44	8,70	188	п	1,57	1,68	1	23,60	81,60	19,93	14	14	88	1	3,65	3,66	-3,38
			- St	SUGAR, UNREPINED.	EFINED.	nosina nosina		Syrif 4		TOBACCO.		UNMANUPACTURED.	BDc			00	COTTON PIRCE-GOODS	E-GOODS	(EUROPEAN).	543).	
Patna	751111	0.88 28 28 28 28 28 28 28 28 28 28 28 28 2	181 th	255 (1)	#88# 88	67 1.76 2,31 16 1 1 32	1 + 1 + 23 + 23 + 23 + 23 + 23	8 1 11 11	7117111	c.	8 1 1 148	47 1 1.06	2,1 1,54 1,90	1,34	S 58 4 57 58 58 55	11111111	8818882	111711]	111111111111111111111111111111111111111	1117 121	******* 8882828
otal	1_	1		2,90	2,33	6,23	-4,09	6	63	п	8,29	1,69	3,91	-3.80	3,86	1	3,86	1	15	16	+8,70
		1000	COLTON	COITON PIECE-GOODS	de (Indias).		nt see do bot ballo d	f gov			SAUE	ii.	e est			-: ba	ing a Lez h	Kerosine	OIL.		
Patns	11 1111	(1 Ta)	50 50 50 14 15 51 50 50 14 15	7111111	Mark III	3 1 9	1++++	2996 1946 1946 190 190 378	8040	382 203 272 212 190 255 372		8 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4 MID 41	+ 3,16 + 2,03 + 2,71 + 2,07 + 1,30 + 2,53 + 3,65	118 110 28 38 38 38	111111	28 28 28 28 28 28 28 28 28 28 28 28 28 2		111110	11111111	++++++ E201883
otal	1 10	1 1	15 16		1 10	п	+	1,718	109	1,827	00	90	83	+18,04	2,21		2,21	-	61	01	+2,19

49. Food-grains.—As regards food-grains, it is only necessary to repeat that early in the year grain was largely exported, and that in the last three months of the year a great deal was imported for the North Bihar districts. In

		NET IM		ORTS IN FAVOU	E OF THE	1
DISTRIC	r.	April 1895 to September 1895.	October 1895 to March 1896.	April 1896 to September 1896.	October 1896 to March 1897.	REMARKS
1		2	3	4	5	6
Gaya Shahabad Saran Champaran Muzaffarpur	al	Mds. I 49,571 E 1,17,979 I 230,354 I 65,190 E 8,831 E 24,379 E 64,579	Mds. E 6,81,447 E 18,149 I 78,393 I 8,171 E 7,220 E 14,755 E 90,174	Mds. E 10,54,281 E 69,229 E 2,83,357 I 29,840 E 5,681 E 6,039 E 40,725	Mds. E 5,51,608 I 12,651 I 17,791 I 7,47,688 I 80,163 I 3,29,195 I 31,005 I 6,66,885	

further proof of this fact, I give in the margin figures obtained from the Railway Companies, which show mostgraphically the movements of the grain trade during the four last half-years. To begin with, in the half-year ending with September 1895 the imports were a lakh and a

quarter of maunds; in the corresponding period of 1896 the imports had ceased and the exports were 14½ lakhs, the measure of the difference between the two periods being thus 16½ lakhs of maunds; so, again, in the second-half of the year 1895-96 ending with 31st March 1896, the Division showed an excess of exports amounting to 7½ lakhs, whereas in the second half of the year 1896-97 these exports had all changed into imports, and the excess in favour of imports was now 6¾ lakhs, the measure of difference being nearly 14 lakhs. It is quite clear that during the greater part of the 12 months from 1st October 1895 to 30th September 1896, grain was pouring out of the Division mostly no doubt to the westward; the excess of exports over imports being 21,54,653 maunds. Then when it became clear that the crops in Behar were a failure, the tide turned, and during the last half of the year under review, viz., October 1896 to March 1897, a great excess of imports has been received equal, as above stated, to 6¾ lakhs of maunds. When the report for the current year 1897-98 comes to be written, it will be found that there has been an enormous excess of imports for the period October 1896 to October 1897.

50. Turning to district figures, the statement above shows that Patna almost throughout has been a great exporting district, much of its imported grain being received by boat and road, so that it escapes registration as it comes into the great central emporium. Saran has consistently imported more than it exported, as it always does, but the extent of its need may be judged by the following figures for net imports during the four successive half-years of the statement—65,190, 8,171, 29,840, and 7,47,688. In the other districts it will be noticed that though there is a great difference in the volume of the trade, the history of the traffic is the same, i.e., considerable exports in the first half-year, a falling off in the second, a large rise in the third, and then a complete change to large

imports in the fourth period.

51. Other goods.—In other branches of trade the traffic figures are not so remarkable. Taking imports first, there has been a larger increase under gunny-bags, probably for packing grain, in linseed, which seems to have been almost all exported again, and in unrefined sugar. On the other hand, there was a large decrease in the imports of mustard seed, unmanufactured tobacco, and coal and coke, while there was a smaller shrinkage under cotton piece-goods, salt and kerosine oil. Under exports there has been a large rise under linseed, the whole of the imported seed having apparently been exported with much more besides: in mustard seed there has been a heavy decline corresponding to some extent with the decline in imports; sugar has also greatly fallen off in spite of the increase in exports: tobacco has largely increased, a somewhat remarkable result, since it was feared that the trade with the North-Western Provinces would be seriously checked by the scarcity prevailing there. On the contrary, the exports to the west have gone from 1,29,916 maunds in 1895-96 to 2,21,177 maunds in 1896-97. Salt has been stationary, and coal and coke have fallen off by about one-third.

52. River-borne traffic between Bihar and the Nadia rivers.—This appears to have been entirely killed by the scarcity. In 1895-96 the imports by this route were 89,350 maunds, and the exports 3,80,466 maunds. For 1896-97 the figures are—imports 8,101 maunds and exports 2,102 maunds.

53. Trade with Calcutta.—The subjoined statements exhibit separately the statistics of export and import trade between Calcutta and the districts of this Division conviced by all routes reil road river and canal during the year

Division carried by all routes, rail, road, river and canal during the year

1896-97:--

								Food-G	RAINS.							
				Rice ar	nd paddy					C.	am and		Other	food-		
WHENC		F	lice.	Pa	ddy.		Total in rice.	Whe	oat.		ulses.		grain		To	otal.
		1895-96	1896-97	1895-96	. 1896-97	7. 1895-	96. 1896-97.	1895-96.	1896-97.	1895-9	6. 1896	-97. 18	95-96.	1896-97	1895-96.	1896.57
1	i	2	3	4	5	6	7	8	9	10	1		12	13	14	15
Patna Gaya Shahabad Saran Champaran Muzsffarpur Darbhanga		Mds. 4,440 474 222 44 449 87 95	Mds. 5,570 12 20 17 25 954 576	Mds. 675 124 684	Mds. 385 331	Mds 4,440 896 99 44 876 87	5,811 12 227 4 17 5 25 7 954	Mds. 11,677 679 2,366 452 1,379 1,369 14,711	344	Mds. 3,31,89 5,80 1,13,25 19,22 11,26 23,93 70,11	1,02 3 8 1 3	,138 69 346 ,174 8 ,192 12 749	1ds. 0,580 3,400 2,335 54 2,315 556	Mds. 1,00,665 2,132 4,610 4,269 6,191 3,370	Mds. 4,17,588 7,380 1,24,123 32,054 13,577 27,702 85,472	Mds. 4,72,72 70 1,65,88 12,17 5,21 13,96 42,12
Total		5,611	7,174	1,483	716	6,537	7,622	32,633	74,835	5,75,48	5,09	,108 9	3,240	1,21,237	7,07,896	7,12,80
		I	IBROUS P	RODUCTS			OIL s	EEDS.				1				
		Jute,	raw.	Gunny	-bags.	Li	nseed.	Musta	ard seed.	Te	a, Indi	an.	Cotto	on, raw.	Sill	r, raw.
	*	1895-96.	1896-97.	1895-96.	1896-97.	1895-	96. 1896-97	. 1895-96	1896-97	1895	96. 18	96-97.	895-96	1896-9	97. 1895-96	1896-97
18/14 1 1		16	17	18	19	20	21	22	23	24		25	26	27	28	29
Patna Gaya Shahabad Saran Champaran Muzaffarpur Darbhanga		Mds. 5,963 972 456 1,420	Mds. 230 291 762 	Mds. 10,967 7,315 4,970 7,070 560 2,065 13,013	Mds. 53,724 4,970 6,650 9,205 4,700 5,740 13,020	Mds 6,93,3 73,8 80,6 2,34,5 1,31,4 1,44,8 3,55,9	351 9,13,300 87,313 76 1,09,26 72 1,52,06 67 1,62,85 900 2,63,56	2,169 10,200 8,933 4,148	Mds. 1,10,30 14.64 10,32 22,09 24,07 42,93 1,16,27	2 8 5 3 	AC.	Ids. 4	Mds. 810 21 45 17 	35	8 6 11 19 35	Mds 25
Total		8,814	1,474	45,960	98,009	17,14,6	21,61,084	65,569	3,40,65	6 4	86	623	940	2,46	9 25	28
				SUGAR.				Tor	BACCO.			1				
		Re	fined.		Unrefine	d.	Unmanufa	actured.	Max	aufactu	red.	Coal	and co	oke.	Indig	0.
		1895-96,	1896-97	7. 1895	-96.	396-97.	1895-96.	1896-97.	1895-9	6. 1	96-97.	1895-	96. 189	96-97.	1895-96.	1896-97.
94		30	31	35		33	34	35	36		37	38		39	40	41
Patna Gaya Shahabad Saran Champaran Muzaffarpur Darbhanga		Mds. 1,312 478		9 37	,682 ,583 ,101 ,456 169	Mds. 11,469 28,767 59,856 3,420 	Mds. 25,614 640 547 541 22 3,760 10,191	Mds. 17,205 300 48 279 7,244 12,658	6,0	52	Mds. 13,414 6,428 46 27 1	Mds		ds.	Mds. 311 769 13,350 17,873 18,011 14,974	Mds. 255 22 894 10,676 20,372 14,917 9,016
Total	-	1,95	_	-	-	,10,850	41,315	37,734	-	_	19,290		-		65,308	56,151

B. - Imports into the Patna Division from Calcutta.

		Rice.	P	addy.	w	heat.		ram and pulse.	Oth	er food-		Total.		COTTON PIECE	-GOODS.	
	-		1		1				1 °				E	aropean.	Ir	ndian.
	1895.96.	1896-97.	1895-96.	1896-97.	1895-96.	1896.97.	1895-96.	1896-97.	1895-96.	1896.97.	1895-96.	1896.97.	1895-96.	1896-97.	1895-96.	1896-97.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
	Mds.	Mds.	Mds.	Mds.	Mds.	Rs.	Rs.	Rs.	Rs.							
tna	49	83,687	24	18,712			5	9,240		763	78	1,12,402	27,63,162	27,01,102	18,586	15,23
ra	12	8,034						1			12	8,035	14,21,547	13,69,708	7,979	15,845
ahabad	66	23,898	4	3,942			41	1,136			111	28,976	83,10,285	31,74,550	11,993	13,887
an	38	2,03,046		4,332	8			784		4,459	46	2,12,621	28,84,770	28,54,811	656	390
amparan		1,06,623		13,326			8		2	4,841	10	1,24,790	36,50,508	36,27,103	1,437	310
saffarpur	34	75,480		15,082				896		2,823	34	94,281	27,89,516	26,48,987	4,516	18,665
bhanga		48,915		4,472					1	686	1	54,073	40,75,492	35,12,601	3,006	12,471
Total	199	5,49,683	28	59,866	8		54	12,057	3	13,572	292	6,35,178	2,08,95,280	1,98,88,862	48,173	76,800

	1		Сотто	N TWIST.		9	alt.	Kerosir				1
		Europ	ean.	India	n.		a) v.	Kerosii	10 011.	Gun	ny-bags.	REMARKS.
	. 10.4	1895-96.	1896-67.	1895-96.	1896-97.	1895-96.	1896-97.	1895-96.	1896-97.	1895-96.	1896.97.	
	1	18	19	20	21	22	23	24	25	26	27	28
		Mds.	Mds.	Mds,	Mds.	Mds.	Mds.	Mds.	Mds.	No.	No.	rainty
	-	2,787	3,647	14,903	9,655	2,70,967	2,27,961	1,21,707	1,04,241	11,48,485	15,47,474	2010
-	5 82	460	286	18,537	6,998	1,94,601	1,93,984	31,027	12,504	2,54,205	1,83,750	n and specific
abad		224	511	12,635	10,162	2,67,400	2,70,170	5,829	5,073	1,74,440	2,43,215	
	-	724	371	2,845	2,756	2,23,823	2,12,474	21,311	11,763	1,78,440	2,25,623	
paran	-	266	7	3,169	4,071	2,07,140	1,90,135	26,940	25,977	1,41,505	2,90,535	
ffarpur	-	176	9	1,493	1,236	2,23,644	2,56,012	34,800	86,698	1,96,815	3,22,925	
hanga		175	114	10,858	5,939	3,33,628	3,70,992	50,477	49,209	4,01,565	6,25,280	•
Total		4,812	4,945	64,440	40,817	17,21,203	17,21,728	2,92,091	2,45,465*	24,95,455	34,38,802	

In previous years the trade with Calcutta in food-grains was so insignificant that it was not inserted in these tables. In the past year this has been completely changed, and they are now given. The import trade in food-grains has already been discussed, and no further comment seems called for here.

54. Trade with Nipal.-The statistics of this trade are given in the

		Imports f	rom Nepal.	Exports	to Nepal.
	Articles.	1895-96.	1896-97.	1895-96.	1896-97.
3	1	2	3	4	5
1		Mds.	Mds.	Mds.	Mds.
1. 2. 3. 4. 5.	Rice Paddy Wheat Gram and pulses Other food-grains	4,89,523 6,32,274 50,395 82,880 3,95,741	4,82,579 5,43,357 40,975 1,20,007 3,61,858	2,593 21,010 141 1,475 4,842	5,157 1,00s
6. 7. 8. 9. 10,	Jute-raw Gunny-bags Linseed Mustard seed Tea, Indian Cotton, raw	2.02,955 23,459 424 493	2,16,708 31,838 2,653	1,864 1,143 246	4,695 50 12 86
12. 13. 14. 15. 16.	Silk, do Sugar, refined Do., unrefined Tobacco, manufactured Ditto, unmanufac- tured.	1,603	17,389	1,781 14,512 11,338 28,363	6,122 85,663 7,583 4,515
17.	Indigo				Rs.
18.	Cotton piece- Bales			18,75,812	3,26,928
	European Boxes				Rs.
19.	Ditto Bales			15,363	14,597
-0	Boxes				7 056
20.	Cotton twist, European Ditto, Indian			6,639	7,856
22.	Salt			1,21,320	1,59,574
23.	Kerosine oil	2,236		41,125	19,969
24.	Coal and coke	47			13,772
	Total	18,96,592	18,17,364	21,52,637	2,65,881

^{*} Omitting the figures for piece-goods.

marginal statement, which is abridged from that given in my last report by the omission of columns for trade with Sikkim and Bhutan, since no such trade is carried on with this Division. Taking the imports from Nipal first, it appears that the total is less than last year by 79,228 maunds, chiefly owing to a large falling off in paddy, and smaller declines under wheat, rice and other food-grains, while on the other hand there is an advance under gram and pulses, linseed, mustard seed, raw cotton, and unmanufactured tobacco. Taking food grains alone, the 16,50,813 imports were 1895-96 maunds in and 15,48,776 maunds in the year under review. The deficiency is attributable to the embargo which was placed by the Nepalese authorities at the end of the year on the exportation of grain, but the figures are far below the truth, for there has undoubtedly been

a very large contraband importation of grain from Nipal all through the last quarter of the year.

55. In the matter of exports to Nipal, the figures as they stand are complicated by the fact that in 1895-96 the piece-goods traffic was shown by weight and this year by value. As it is by far the largest item in the schedule, the latter is robbed of a good deal of its interest. However, eliminating from both years the figures against articles 18 and 19, we get a total export traffic for 1895-96 of 2,61,462 maunds, and in 1896-97 of 2,65,881 maunds, thus showing a slight rise, which is most noticeable in salt, coal and coke, unrefined sugar and gram and pulses, while there has been a falling off under rice, paddy, other foodgrains, raw cotton, umanufactured tobacco, and kerosine oil.

56. Nothing is said in the district reports especially worthy of notice, except by Mr. Macpherson, who has very carefully reviewed the trade of this district for the year; his remarks are unfortunately too long for quotation, but

they will remain as a useful record for the use of future Collectors.

XIII-CRIME.

71. The total reported crime of the Division during the year 1896 as compared with the previous year is noted below:—

	1895.	1896.	Variation.
Cognizable offences Non-cognizable offences	 31.166 19,739	30,056 18,157	1,110 1,582
Total	50,905	48,213	2,692

Excluding offences against sanitation, the figures stand thus:-

Cognizable Non-cognizable			1895. 22,278 19,739	1896. 23,099 18,157	Variation. +821 1,592
	Total	• • • • •	42,017	41,256	7761

These figures indicate (a) a general decrease in the number of reported offences during the year under report, (b) the decrease being noticeable in non-cognizable offences both including and excluding offences against sanitation, and (c) that cognizable crime (reported) shows a satisfactory diminution, but if the sanitary offences are excluded, the total exhibits an increase. This increase is shared more or less by all the districts north of the Ganges, while the three South Gangetic districts show a falling off. It is suggested by some officers that the increase is due to the prevailing high prices of food-grains, but this cause can only have operated during the last 4 or 5 months.

72. The table below shows the classification of cognizable crime for the past two years in the Division as a whole, from which it will be seen that the

increase noticed above occurs chiefly in offences against property :-

CLASS OF OFFENCE.	1895.	1896.	Variation
1	2	3	4
Offences against property Ditto person Ditto public tranquillity Other offences (excluding public nuisance cases.)	18,118 1,201 541 2,418	19,218 1,272 530 2,079	+1,100 +71 -11 -339
Total	22,278	23,099	+821

73. The percentage of cases declared false to the total number of cases instituted during the year was 4.6, against 5.4 in the previous year. The number of cases in which presecutions were instituted was 108 or 7.7 per cent. of the total number of cases declared false, as compared to 116, or 8.3 per cent. in the preceding year; 37 cases ended in conviction. Compensation was awarded under section 560, Criminal Procedure Code, in 108 other cases; this is a ridiculously small number, and it is much to be regretted that more use is not made of this section.

74. It is satisfactory to observe that the general percentage of house-breaking cases not enquired into during the year shows a diminution as compared with the previous four years, viz., 19:8 as against 31:6, 31:1, 41 and 53:5 respectively. In this respect Shahabad shows the best result, only 5:6 per cent. of the cases in this district not having been enquired into; Champaran and next to it Saran exhibit what I consider the poorest result in this direction, 34:9 and 30:3 per cent. respectively having been refused enquiry. On the whole the result shows considerable improvement as compared with the previous year.

75. The result of sessions cases shows a satisfactory improvement, the percentage of convictions for the Division, both in regard to persons and cases, having risen from 55.7 and 71 in 1895 to 69.8 and 76.6 respectively in the year under report. Patna shows the best result and Shahabad the worst.

76. There is a rise of 30 cases in the number of true cases of rioting as compared with the previous year (353 as against 323), but if contrasted with the years 1893, and 1894 the number is smaller. The increase is said to be due to the occurrence of a large number of irrigation disputes which were more numerous and more bitterly contested owing to the want of rain. The bulk of these rioting cases are reported to have been of a petty nature. Thirteen cases arose out of disputes over the growing of indigo, viz., 9 in

Muzaffarpur and 2 in each of the districts of Champaran and Darbhanga—188, or 53.2 per cent. of the cases, ended in conviction: in 257 cases 724 persons were bound down during the year under sections 106 and 107, Criminal Procedure Code.

77. There were 59 true cases of dacoity against 41 in 1895. For this increase of 18 cases Shahabad is chiefly responsible, and all the 14 cases which occurred during the year in that district were attended with the looting of grain due to prevailing high prices of food-grains. The judicial results are not satisfactory, only 11, or 18.6 per cent. of the cases, having resulted in conviction.

78. Cases of robbery increased from 41 in 1895 to 53 in 1896. For this increase Patna and Gaya alone are responsible. It is, however' gratifying to notice that in the four North Gangetic districts and also in Shahabad, where scarcity prevails in a more severe form, this crime shows some diminution. Out of the 53 cases, 25 ended in conviction, and of the 63 persons

brought to trial, 39, or 61.9 per cent., were convicted.

79. The total number of bad livelihood cases increased by 69, viz., from 938 in 1895 to 1,007 in the year of report. Gaya returned the largest number (270) and Darbhanga the fewest (89); 298, or 29.5 per cent., of these cases were tried in the village of the accused, and 668 cases were tried in Court. In this respect Patna and Darbhanga show good results, more than 50 per cent. of the cases in each district having been tried locally, while Champaran comes out badly with only 8.4 per cent. of its cases so tried. The judicial results indicate that on the whole the prosecutions were judiciously instituted, 81.6 per cent. of the cases having ended in conviction. Besides, 437 persons were bound down for one year and 59 others for three years.

80. As a separate report has recently been submitted to Government regarding the Dome settlements in Saran and Champaran, I do not think it

necessary to reproduce the details here.

POLICE.

82. It will be seen that in every district there has been some advance in the process of introducing Act VI of 1870 in all villages, but the feature of the year has been the great revolution carried out in Gaya by the energy of the Magistrate, Mr. Savage. When the year began one out of every three villages in the district was under the old system, and there were far more regulation villages in Gaya than in any other district of the Division, viz., 2,177: when the year closed the whole of these had been converted into Act VI villages, and the village watch throughout the whole district is now administered by panchayats. This is a record of which Mr. Savage may well be proud, and it shows what can be done by perseverance and determination. He says:—

"Chaukidari matters had my special attention during my cold-weather tour, and the whole district is now divided into compact chaukidari villages, with on the average 10 chaukidars and one dafadar under one panchayat. When I began the work, I was told I could not get respectable men to act as members of the panchayat, but results have falsified the prediction. Respectable men have freely accepted the post, and as an instance I may note that the Raja of Deo volunteered to take the post of collecting member of his village panchayat: his offer was accepted, and he has been doing the work himself. The punches are now all composed of influential and representative men—a result that could not be obtained under the old system, under which petty hamlets had each their punch for the most part of illiterate Babhans or Gowalas. The new panchayats have commenced work well. They have made fair assessments on the whole, have paid up their chaukidars, and have been particularly useful as members of Local Charitable Relief Committees."

Saran most nearly approaches to Gaya in the completeness of the reform, for only 7 villages out of 3,866 are under the old regulation, in Patna 600, Muzaffarpur 513, and Champaran 372. The numbers of villages not yet under Act VI are large, but I trust that during the coming cold weather the District

Magistrates may be stimulated to still greater effort than before by what has been done in Gaya. The number of villages under the old regulation to every 100 in each district of the Division, excluding Gaya and Saran, is given in the margin.

83. Much attention has been given during the year to the payment of the chaukidars under Act VI of 1870, and the statement below shows very satisfactory results, when it is remembered that the scarcity prevailing during the last quarter of the year 1896 vastly increased the difficulties of the panchayats:—

	Number of	Number of chaukidars in arrears for-								-5.71BV	
NAME OF DISTRICT.	chaukidars under Act VI of 1870.	Four months.	Five months.	Six months.	Seven months.	Eight month.	Nine months.	Ten months.	Eleven months.	Twelve months.	REMARKS
1	2	3	4	5	6	7	8	9	10	n	12
Patna Gaya Shahabad Saran Champaran Muzaffarpur Darbhanga	2,725 4,036 3,846 4,486 2,171 4,244 4,228	7 8 1	 3	1 25 406 15 14 81 82			2 "11 5	"1 "1	"" "" ""	-4	

The similar statement given in paragraph 143 of my report of last year showed that out of all the Act VI chaukidars, 4.99 per cent. were in arrears for four months or more at the end of the year 1895: at the end of 1896 the percentage was only 2.59. In Patna the results are extremely creditable to the Magistrate and his police officers. Champaran, Saran, and Gaya come next with practically no long-standing arrears, and then Muzaffarpur and Darbhanga, while Shahabad shows much the worst results. What is known locally as the Saran system, introduced by me in that district in 1892 on Mr. Forbes' models, was in force in Gaya, Saran, and Champaran, and the results are most satisfactory. In Darbhanga the same system is in force without the prompt prosecution of defaulting punches, which is an essential part of the scheme. In Muzaffarpur the same system is in force with modifications, but in Shahabad, which shows far the worst results in the Division, a cumbrous modification of the Saran system has been followed, which, however, since the close of the year, has been abolished or greatly improved. In Patna there is a system of baxis.

STATE OF PUBLIC FEELING AND THE PUBLIC PRESS.

240. Since October last the one subject which has aroused and held the public interest everywhere is the price of food and the prospect of the crops. Little seems to be generally known of the operations of Government for the relief of famine, and I have been much surprised to notice how ignorant even well informed native gentleman are of what is going on except in their immediate neighbourhood; but there is no doubt that the masses have not been so generally interested for a long time. In October, when the prices fell suddenly owing to the operations of buyers for export to the North-Western Provinces and Central Provinces, there were petty grain riots at Arrah and Dinapore, and the public mind was a good deal stirred; but since that time there has been no ebullition. The most fantastic stories as to the intentions of Government have grown up on the relief works and around poor-houses from time to time, but these have been

rapidly forgotten without any evil results occurring, beyond sometimes a temporary stampede, and on the whole it is recognised that Government has made great efforts without which many lives would have been lost. It is remarkable as bearing out what I have said above that the local papers have hardly noticed the relief operations and the few native critics of our operations have been either local correspondents writing to native papers in Calcutta, or special correspondents sent up by them for the purpose.

241. At the beginning of the year there was a good deal of feeling among the educated classes in favour of a movement to petition for the separation of Bihar from Bengal, but this was crushed, for the time at any rate, by the Lieutenant-Governor's speech at Gaya. Few complaints are now heard against the settlement operations: certain misapprehensions on the subject were set right

when the Lieutenant-Governor was at Muzaffarpur in July 1896.

242. The papers locally published are almost, without exception, the same as before, Patna taking the lead with the Bihar Times which purports, to represent the conservative and patriotic Bihari elements, and the Bihar Herald, which is the organ of the Bengali-Biharies, as well as of the landholding classes. This unusual combination of interests is due to the position and circumstances of the editor. The Hindi, as well as the Bengali, version of the Bangabashi is a good deal read.

XXXVII.-FAMINE RELIEF.

247. As a full report will be separately submitted to Government at the end of the relief operations, I consider it unnecessary here to do more than give a very brief sketch of the history of the scarcity during the year and of the measures taken to combat it, although as a fact these matters absorbed the greater part of the time and attention of myself and all the officers of

North Bihar and Shahabad for the last six months of the year.

In paragraphs 17 to 20 above I have already described the unfavourable weather and the want of rain which brought about a serious failure, first of the bhadoi and then of the aghani crop, and which greatly jeopardised the rabi. Providentially frequent showers throughout the last three months of the year under report saved the latter, and the crop turned out much better than was at first expected. Matters began to look serious early in September, and when the second half of that month and the whole of October passed without rain, it was manifest that the rice crop was doomed, and that the prospects of the rabi were seriously endangered. At the end of September and in the first week of October there was a sharp rise in prices, which created a good deal of panic and some local disturbances at Arrah and Dinapore. On the 8th and 23rd October I found it necessary to forward to Government two letters announcing the very critical condition of the crops, and on the 11th November, as prospects had not improved in the meantime, I submitted my preliminary report under section 9 of the Famine Code, and it was officially declared that scarcity was present. From that time up till the date of this report half-monthly reports have been regularly laid before Government, and they will continue to be submitted till October. These reports and those of the District Officers embody a complete narrative of events as they occurred, and may be referred to for further particulars.

248. On the 20th November all the District Officers in Bihar, the principal officers of the Public Works Department, and many of the leading non-officials were summoned to a conference at Sonepore, which was presided over by the Lieutenant-Governor, who travelled from Calcutta for the purpose. He subsequently made a second tour in March, visiting the works in the districts of Champaran and Darbhanga, and holding a second conference at the latter

station on the 5th February 1897.

249. As required by the Famine Code, relief was afforded along two broad lines, viz., by relief works and by gratuitous relief. Subsequently a good deal of further aid was given from the Indian Famine Charitable Relief Fund. All these will be dealt with in turn.

250 For the better supervision of all famine relief operations each district was divided into charges, and these again into circles, the general scheme being that each charge was to consist of 300 square miles, and each circle of 30 square miles, so that 10 circles went to a charge. These charges were manned by civilians, police officers, military officers lent for the purpose and non-officials many of whom were planters with local knowledge. Circle officers and

DISTRICT.	NUMBER OF-				
District.	Charges.	Circles			
1	2	3			
Shahabad Saran Champaran Muzaffarpur Darbhanga	4 7 8 11 12	19 66 78 78 88			
Total	42	329			

Circle officers and officers in charge of works were mostly natives, receiving from Rs. 50 to Rs. 100 a month according to qualifications, but towards the end of the year a number of European non-commissioned officers and privates were deputed for this work, and later still after the year closed some native officers also were obtained: many indigo-planters, and their assistants gave their invaluable services gratuitously, especially in Champaran and Muzaffarpur. At the time of greatest pressure the number of charges and circles in each district was as in the margin.

251. Relief works were first opened in Champaran in the week ending the 14th November 1896, the numbers employed on that day being 1,417. During the next week Shahabad joined in, and by the 5th December the Collector of Saran had opened works, being followed in the succeeding week by the Collector of Darbhanga. After a pause works were opened in Muzaffarpur just before Christmas, and by the 1st January 1897, Patna also had relief works started. All these were at first of the nature of test works, but the numbers rose, and the total employed on relief works in the Division on the 2nd January 1897 was 65,339. From this time they rose very rapidly, though irregularly, and the highest total on relief works was reached on the 29th May 1897, when the number of persons so employed was 363,057. On the last Saturday in the year, viz., the 27th March 1897, the numbers were 273,511.

252. Gratuitous relief was administered first in Saran in the week ending the 5th December. It was commenced in Champaran, and in Darbhanga in the succeeding week, and in Muzaffarpur just before Christmas, simultaneously with the opening of the relief works. In Patna operations commenced in the week ending the 23rd January, and in Shahabad not till the first week in February. The highest numbers in receipt of gratuitous relief were

and the second s	PE	Percentage on-					
DISTRICT.	Relief works.	Gratuitous relief.	Total.				
1	2	3	4				
Shahabad Saran Champaran Muzaffarpur Darbhanga	2·02 1·11 6·87 1·80 4·96	4.62 1.87 3.70 1.70 3.11	6.65 2.99 9.87 3.50 8.08				
Total	3.72	2.74	6:47				

recorded on Saturday, the 5th June 1897, when the total was 380,762: on the last Saturday of the year, viz., 27th March 1897, the numbers on gratuitous relief were 201,899.

253. The statement below gives details of the numbers relieved on the last-named day both on works and gratuitously. It includes those relieved by certain private agencies, i.e., the Darbhanga Raj in Darbhanga, the Hatwa Raj in Saran by direction of the Court of Wards, and zamindar of Manjha in the same district. The percentage of persons relieved to the whole population of the affected tracts is as in the margin—

Statement showing the number of persons on Relief Works and on Gratuitous Relief on Saturday the 27th March 1897.

Ada Joseph	STATE OF A SHIP WORKS.							ATUITOU	S RELIE	7.	TOTAL,			
Distri			Men.	Women.	Children.	Total.	Men.	Women.	Children.	Total	Men.	Women.	Children.	Total.
1	100		2	3	4	5	6	7	8	0	10	11	12	13
Patna) (). [].				21.5 3 17.5 3 45 7 1		80	45	15	140	80	45	15	1011
Gaya										dan et	0 m o	•••		(d)**
Shahabad	1		2,291	2,685	2,547	7,523	3,853	8,073	5,283	17,209	6,144	10,758	7,830	24,733
Saran			3,534	4,301	4,614	12,440	4,816	16,238	6,178	27,232	8,350	20,539	10,792	39,681
Hatwa			1,450	1,458	1,209	4,117	145	222	140	507	1,595	1,680	1,349	4,624
Manjha							76	7	13	96	76		13	96
Champaran			42,720	34,909	29,207	106,836	12,565	25,978	19,047	57,590	55,285	60,887	48,254	164,426
Muzaffarpur			14,976	7,369	7,570	29,915	6,116	12,723	9,514	28,353	21,092	20,092	17,084	58,268
Darbhanga						95,984		ri zase		60,558	olled and	0.00		156,543
Ditto Raj			10,919	4,393	1,375	16,687	1,851	4,566	3,797	10,214	12,770	8,959	5,172	26,901
		100	37/20	10.123		19.5-51				No.				
	Total					273,511	-	-		201,899	i	Tacardi Eliment V	i isten Sa r idi Duni si	475,410

254. On relief works numbers were greatly affected by the demands for field labour, and by rainfall and to a less degree by the occurrence of holidays. Temporary fluctuations also occurred when any changes of system were introduced or when strikes took place. The numbers on gratuitous relief have gone up more steadily under the influence of two factors—the completion of the necessary organization and the increasing distress as time passed, bringing with it the gradual exhaustion of stocks and slowly rising prices. The following statement gives the numbers in each district relieved in every way during the year 1896-97, month by month—all reduced to terms of one day:—

3	MONTH AND CLASS.		Patns.	Shahabad.	Saran.	Champsran.	Muzaffar- pur.	Dar- bhanga.	Total.
alli de la como Nombre de la como	and Lybrania	T	2	3	4	5	6	7	
November	Relief works	-	4,480	25,984	616 126	36,918	4,704	12,544 84	85,246 210
	(Total		4,480	25,984	742	36,918	4,704	12,628	85,456
December	(Relief works " (Gratuitous relief	=	2,744	20,734	25,830 14,658	298,424 16,716	2,779	90,06 2 65,212	440,566 96,586
	Total		2,744	20,734	40,488	315,140	2,773	155,274	537,153
January	Relief works "Gratuitous relief	-	18,816 252	49,693 6,279	282,835 133,371	2,475,396 147,203	192,514 60,291	2,150,918 1,231,647	5.170,173 1,579,053
	Total		19,068	55,972	416,206	2,622,599	252,805	3,382,575	6,749,225
February	Relief works	-	3,654	27,804 279,566	342,034 428,232	2,65°,882 725,438	528,640 807,436	2 922,430 1,846,488	6,474,790 4,090,814
	Total		3,654	397,370	770,266	3,379,320	1,336,076	4,768,918	10,565,604
March	Relief works Gratuitous relief	=	3,038	91,743 386,568	315,238 604,058	3,137,848 1,569,988	478,814 823,284	2,168,502 1,525,524	6,192,144 4,912,460
196	Total		3,038	478,310	919,296	4,707,836	1,302,098	3,694,026	11,104,604
Total	{Relief works Gratuitous relief		26,040 6,944	215,957 672,413	966,553 1,180,445	8,602,468 2,459,345	1,207,444	7,344,456 4,668,965	18,362,918 10,679,123
	Total		32,984	888,370	2,146,998	11,061,813	2,898,455	12,013,421	29,042,041

255. At first on relief works there was some uncertainty as to the task and wage, since it appeared that the tables given in the Bengal Famine Code were not entirely suitable to the conditions of the time. After a conference held at Muzaffarpur on the 4th and 5th December, at which most of the local officers as well as Messrs. Finucane and Glass, Secretaries to Government, were present, task tables drawn up by the latter were introduced, and these have formed the basis of all subsequent operations. It was decided at the same time that all large works were to be executed by officers of the Public Works Department, minor works being carried out by the civil agency under the direct orders of About the end of December the experience of the Government of the North-Western Provinces in the Bundelkhand famine of 1895-96 was made public, and about the end of January the conclusions arrived at by that Government for the administration of relief works were substantially adopted for use in Behar. A little later the North-Western Provinces system of exacting tasks from diggers only, all carriers being paid the daily wage, was discarded for one of large gangs, and this again after the Darbhanga conference in March was finally given up in favour of the system of pit gangs or family gangs, which has been carried on ever since with signal success. Later in the year, at the suggestion of the Government of India, a modified piece-work system was considered and eventually adopted for many large works under professional supervision. It has proved equally successful and popular, and it seems likely that this system will be largely adopted in future, and be accorded a place in the Famine Code as an alternative, under certain conditions, to the pit-gang system evolved in this Division.

256. In order more efficiently to cope with the work to be done by the Department of Public Works, a complete re-organisation of that Department was ordered about the month of February 1897. Two circles were formed—the first comprising Muzaffarpur and Darbhanga, and the second Shahabad, Saran, and Champaran with Mr. C. A. Mills as Superintendent of the first and Mr. J. H. Toogood of the second. Executive Engineers were appointed to all of these districts except Shahabad, while Champaran, and Darbhanga, had two each; a sufficient staff of Assistant Engineers and subordinates was also appointed. These arrangements were still in force when the year 1896-97 came to

an end.
257. The number of works open gradually increased as scarcity deepened,

NUMBER OF WORKS. Public DISTRICT. Works Civil Depart-ment Total. agency. agency. 3 2 1 Shahabad 2 31 29 59 21 Champaran Muzaffarpur 58 12 70 89 45 Darbhanga 80 Total 242

till in the week ending on the 12th June it was as high as 441. In the last week of the year, i.e., that ending on the 27th March 1897, the number of works open was 322 as in the margin. At that time also the cost per 1,000 cubic feet and the average outturn per male unit were as follows:—Cost per 1,000 cubic feet—Shahabad Rs. 2-10-11, Saran Re. 1-15-4, Champaran Rs. 3-12-5, Muzaffarpur Re. 1-13-5, Darbhanga Rs. 2-14 5. Outturn per male unit in cubic feet—Shahabad 42, Saran 45½, Champaran 27¼, Muzaffarpur 47, Darbhanga 29½. The reason of the good returns in Muzaffarpur is that the work was mostly on roads, and a large propor-

tion of the labourers were men; in Champaran and Darbhanga the poor outturn was due to a large proportion of the works being tanks with long lead and lift; in Saran it was due partly to the same reason and partly to the smaller number of men on the works.

258. The private relief works of the Hatwa Raj were conducted on Famine Code principles by the Court of Wards: those carried out by the Maharaja of Darbhanga were based on a piece-work system, differing not greatly from that subsequently adopted by the Public Works Department.

259. Gratuitous relief was afforded in all the methods sanctioned by the Famine Code, viz., by grain and money doles in villages or at central spots, by

poor-houses, by kitchens, and by the relief of casual vagrants and others assisted by the police. Relief has been granted most largely under the first head. It has been found as a matter of practice that it was virtually impossible to use poor-houses as a test of distress, as only those who were in the last stage of disease or destitution would enter them. Large numbers of the more respectable classes would literally prefer to die rather than to seek shelter there.

DISTRICT.	Numbers in receipt of gratui- tous relief.	Percentage.	
1	2	3	
Shahabad Saran Champaran Muzaffarpur Darbhanga	17,209 27,835 57,590 28,353 70,772	4.62 1.87 3.70 1.70 3.11	
Total	201,759	2.74	

Kitchens were at first opened chiefly on the main roads for the succour of wanderers and pilgrims, but later on they were used to feed the children who, it was noticed, were beginning in all districts to fall into bad condition. Since the close of the year they have been utilised as one means of closing relief operations; the acceptance of cooked food at a kitchen being made a test of necessitousness for all except those who were physically incapable of coming for food. The numbers of persons on gratuitous relief in each district on the last Saturday of the year are given in the marginal statement, which also shows the proportion which they bear to the total population of the affected area.

260. Exception has been taken to the numbers receiving gratuitous relief both actually and relatively to the numbers on relief works, but after careful examination it has been admitted that the figures are not unreasonable, regads being had to the following facts:—(a) that the population of North Bihar is both extraordinarily dense and extraordinarily poor; (b) that among all those seen by many observers in the receipt of gratuitous relief, none were observed

who were capable of doing work.

261. From the Indian Famine Charitable Relief Fund, relief was afforded on not quite the same lines as those adopted by Government. The local committees formed for the administration of this Fund particularly devoted themselves to the relief of the respectable poor, who by the custom of the country are debarred from appearing in public to accept relief, and also to orphans and widows; they also assisted with gifts of clothing and blankets and extra comforts to the sick, and lastly they have expended large sums in small donations to distressed agriculturists and others in order to set them on their feet again after the scarcity. By the time that the year ended these arrangements were hardly in working order and little or no money had been distributed, but since that time arrangements have been completed, and the liberal allotment of 13 lakhs, which has been made by the Central Committee, will have been expended to the great advantage of the very poorest classes of the community by the time that the operations are closed.

262. The wants of the population and the deficiencies of the crops have been fully met by private trade, which has imported food-grain to an unprecedented extent. Much has been said on the subject in paragraphs 43 to 50 of this report, and it has been pointed out how completely the conditions of the normal trade have been changed by the requirements of the present season. It has been shown that during the first half of the year under report grain was exported from the Division in large quantities, but that as soon as the failure of the crops was certain and the necessities of the situation declared themselves, an immense import business arose chiefly from Calcutta (which sent up Burma rice in large quantities), Orissa and the Burdwan Divisions. The figures in the paragraphs above referred to are, however, only for traffic outside the Division, and take no count of traffic between districts within the Division. I therefore give below for facility of reference figures to show for each district in the Division its operations in food-grain traffic carried by rail during the year 1896-97. It will be seen at a glance how the direction and volume of the trade have been changed. Large though the figures are, they do not represent the total imports of the Division, since there has certainly been a large importation from Nipal all along the frontier, and much inter-district traffic by road and river has escaped registration-

		EXCESS IMPORTS OR EXPORTS.						
MONTH.	Patna.	Gaya.	Shahabad.	Saran.	Champaran.	Muzaffarpur.	Darbhanga.	Tctal.
1	2	3	4	Б	6	7	8	9
April 1898 May	E 91,636 E 233,571 E 303,409 E 166,9-3 E 189, 39 E 69,723 E 301,503 E 141,864 E 15,563 E 12,016 I 4,420 E 1,605,859	E 7,373 E 16,575 E 24,629 E 5,751 I 2,520 E 12,421 E 2,985 I 3,512 E 5,212 I 12,210 I 10,355 E 56,578	E 18,882 E 82,954 E 97,224 E 41,771 E 35,692 E 6,834 E 49,407 B 21,767 I 3,963 I 31,128 I 14,721 E 265,560	I 1.716 I 1.166 I 3.767 E 1,489 I 16 944 I 7.736 I 18,880 I 86,796 I 89,337 I 233,031 I 155,957 I 1c7,687	E 1,154 E 270 E 1,479 E 631 E 2,143 E 4 E 2,165 E 24,717 I 1,802 I 13,638 I 26,287 I 65,298 I 74,482	I 627 E 1,414 E 3,750 E 2,591 I 2,029 E 940 I 1,725 I 24,074 I 28,391 I 87,987 I 86,908 I 100,110 I 323,226	E 2,838 E 1,547 E 14,412 E 10,810 E 7,479 E 3,639 E 24,750 E 71,502 E 58,061 I 24,634 I 57,188 I 103,496 E 9,720	E 119,544 E 335,165 E 446,136 E 229,944 E 212,860 E 85,825 E 365,234 E 81,681 I 378,688 I 357,665 I 466,087

263. The health of the people throughout the scarcity has remained extraordinarily good, and as a reference to the appendices will show, the mortality has everywhere been below the average. There has been some increase in

crime, but not so much as might have been expected.

264. It is too soon to speak yet with certainty as to the total cost of the famine relief operations, and even with regard to expenditure up to the 31st March 1897, the considerable sums still unadjusted preclude me from giving final figures, but it is believed that the estimate of Rs 1,08,96,000 for the whole operations of which Rs. 29,54,000 are to be spent in 1896-97 will not be exceeded.

XXXVIII .- GENERAL REMARKS.

The shadow of famine, though it fell over the Division only during the last six months of the year, lends a sombre hue to the whole landscape as one looks back over the past year, and it is difficult to realise that on the far horizon once the sun shone, and all was fair and prosperous. This subject has almost entirely absorbed the attention of myself and the district officers, since the rains began to fail just a year ago, and all others have of necessity been relegated to a subordinate position. Nevertheless the year has been one of progress

and interest in many ways.

Two important railway lines have been commenced in South Bihar and one in North Bihar (Hajipur-Katihar), and have been well advanced. In Champaran, three important feeder lines have been undertakan, and are in various stages of progress, viz. Bettiah to Chainpathia, Segouli to Raksaul, and Bairagnia to Batsara, while in Darbhanga the Sakri-Jainagar extension commenced during the year has been almost completed, so far as earthwork goes, since its close. The Engineers of the Sone Canals exceeded all previous records in their successful efforts to supply water, and they saved the crops over hundreds of square miles in Shahabad, Gaya, and Patna-a feat for which no praise is too extravagant. The chaukidari system has been further developed, in Gaya, Saran, and Muzaffarpur especially, and the whole force, and particularly the dafadars where they have been introduced, have rendered most valuable service during the relief operations. The public health has been extraordinarily good owing to the remarkable absence of cholera, and this may be largely attributed to the increased attention paid to the purity of water-supply and the use of disinfectants; the precautions taken at relief works, poor-houses and kitchens, and the success which has followed them have provided an object lesson to the public which has not been thrown away. There have been practically no religious dissensions or breaches of the peace on fanatical grounds since the Bakr-Id of May 1896 in Darbhanga, and some little trouble in Bihar at the time of the Gunesh Pujah in August. The Muharram of 1896 passed off quietly everywhere. The controversy which raged around the location of the Japanese image at Bodh Gaya has died down, and the public peace has remain. ed unbroken. Lastly, in the field of archæological enquiry, distinct progress has been made in excavating the site of the ancient capital of the Mauryas at Patna, and in identifying sites of the greatest sanctity and importance in Buddhist eyes. 267. On the other hand, besides the scarcity which, through the medium of high prices, affected all classes everywhere, there has been some anxiety lest bubonic plague should be imported from Bombay. Sanitary measures more or less thorough, have been adopted in most of our large towns, but it was considered by the Sanitary Board to be unnecessary to establish an examining station on the line of railway as had been proposed. Cattle-disease has been prevalent in several, districts, but, paradoxical as it may seem in a year of scarcity, their general condition has been better than usual, for in the earlier months of the scarcity they were largely fed on the stunted crops, and later on the frequent showers of the cold weather maintained a perpetual supply of forage. Crime has increased a good deal, especially in the northern districts owing to the scarcity, but it has been of a petty nature.

268. As I write the prospects for the remainder of the current year are most hopeful. The monsoon so far except in a few places, has been of an ideally favourable character, so that the *bhadoi* promises to be above an average crop; and if good rain falls in the end of September, the rice should do equally well over most of the Division. With good crops and a fall in prices our affairs should soon run again in their old channels, but the great exhaustion of stocks which this year has brought about will be felt by the rural population for

some time to come.

269. During the current year as soon as the famine phantom has been laid the following among other matters will require attention: the thorough repair of communications by the District Boards, which have necessarily been somewhat neglected while every available rupee was devoted to relief operations; the perfection of the dafadari system and an examination of chaukidari assessments; the continuation of survey and settlement operations; the provision of water-supply for the cities of Patna and Gaya; and lastly a perpetual vigilance against fanatical outbreaks.

The Canal Revenue Reports for 1896-97.

No. 1390I.A.

IRRIGATION DEPARTMENT.

ACCOUNTS.

Dated Calcutta, the 7th December 1897.

RESOLUTION.

READ-

The Canal Revenue Reports for 1896-97 and the Chief Engineer's note on the same.

The capital outlay on canals in Bengal, for which capital and revenue accounts are kept, had reached a total of Rs. 7,61,23,817 at the close of the year 1896-97. Of this sum, Rs. 1,16,18,801 have been provided from provincial funds, Rs. 6,15,89,436* from loan funds, and Rs. 8,66,000 contributed by the Imperial Government from the Famine Relief and Insurance Fund.

- 2. The total length of canals in operation is 916 miles, of which 495½ miles are for irrigation and navigation, 242¾ miles for irrigation only, and 178 miles for navigation only. There are also 2,605 miles of distributaries, capable of irrigating 1,572,005 acres.
- 3. The receipts for the year from both Major and Minor Works amounted to Rs. 25,63.047 and the working expenses to Rs. 19,37,142, the net revenue being Rs. 6,25,905 against Rs. 2,45,646 in 1895-96, and Rs. 1,38,135 in 1894-95. The receipts were much greater, and the expenditure was somewhat less, than in the preceding year.
- 4. The results of the year's working of the canal systems of Bengal, and the capital expenditure to date, are exhibited in the following table:—

NAME OF CANAL.	Capital expenditure (direct and indirect) during year.	Capital expenditure (direct and indirect) to date.	Receipts of year, less refunds.	Average receipts of nine years ending 1895-96.	Expenditure of year includ- ing indirect expenditure.	Average expenditure of nine years ending 1895-96.	Net income of year.	Average net income of nine years ending 1895-96.
1	2	. 3	4	5	6	7	8	9
Major Works.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Orissa Canals Midnapore Canal Hijih Tidal Canal Sone Canals	15,183 6,219 37,150 () 29,039	2,62,37,029 84,60,252 26,14,942 2,68,97,368	4,72,947 2,78,667 90,946 10,59,645	8,45,316 2,69,708 48,550 8,34,947	4,95,743 2,33,309 40,191 5,97,464	4,72,418 2,27,623 52,712 7,16,672	(-) 22,796 (+) 45,358 (+) 50,755 (+) 4,62,181	(-) 1,27,102 (+) 42,085 (-) 4,162 (+) 1,18,275
Total for { 1896-97 1895-96	29,513 1,53,882	6,42,09,591 6,41,80,078	19,02,205 15,07,729	} 14,98,521	13,66,707 13,84,340	14,69,425	5,35,498 1,23,389	}(+) 29,093
Minor Works and Naviga- tion for 1896-97 Ditto for 1895-96	4,88,457 1,66,776	1,19,14,226 1,14,25,769	6,60,842 7,01,135	} 7,78,166 {	5,70,435 5,78,868	} 5,44,853 {	90,407 1,22,267	}(+) 2,30,313

The only minor works for which capital accounts are kept are the Orissa Coast, Calcutta and Eastern, and Saran Canals.

The interest charges debited in 1896-97 to Provincial revenues amounted to Rs. 24,98,009, which, after deducting the net revenue, works out to a deficit of 3.05 on the capital expenditure.

5. The statement below shows the areas irrigated for the last ten years and the average rainfall. Except in the case of the Sone Canals, the rabi

^{*} Exclusive of indirect charges amounting to Rs. 20,49,580.

irrigation is too insignificant to be shown separately. The area under the head Perennial is not extensive, and is included under kharif:—

			So	NE CANALS		300130		
YEAR.	Orissa Canals.	Midna- pore Canal.	pore Kharif,		Total.	All Canals	Rainfall.	
1 1	2	3	4	5	6	7	8	
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Inches.	
1887-98 1888-89 1889-90 1890-91 1891-92 1892-93 1893-94 1894-95 1895-96	180,299 177,685 160,952 103,526 122,561 119,460	65,864 69,777 68,810 82,002 83,973 91,217 85,763 70,116 65,251 65,183	245,435 255,767 249,669 229,696 263,816 284,560 300,318 275,475 279,879 339,766	69,945 100,142 55,613 51,318 210,907 126,195 66,458 41,664 115,343 215,390	315,380 355,909 305,282 281,014 474,723 410,761 366,776 317,134 395,222 555,156	490,750 584,978 560,719 543,315 736,381 662,930 656,065 509,811 579,933 805,387	\$6.70 52.71 54.02 57.03 46.55 45.13 64.03 58.11 46.05 50.51	
Average of nine years ending 1895-96		75,864	264,957	93,065	358,022	580,542	51.1	

The area irrigated during the year was 805,387 acres, as compared with 579,933 acres in 1895-96, and an average of 580,542 acres during the preceding nine years. The increase occurred chiefly in the area irrigated from the Sone Canals, but there was also a considerable increase in Orissa. In the Sone the rainfall was very deficient, and it failed entirely at the periods when it was most required; in Orissa the rainfall was above the average, but it was not well distributed. The areas irrigated by the Sone Canals, and the total for all canals, are the largest on record.

6. The assessment and collection of water-rates are made under the orders of Superintending Engineers. The recovery of arrears is under the Special Canal Deputy Collectors, in subordination to the District Officers, who also exercise appellate jurisdiction in regard to all orders passed by canal officers under Act III (B.C.) of 1876. The progress made in collection work is shown

in the following table:-

eningen Selden	YEAR.		Balance at beginning of year.	Balance at the end of the year.	Remissions, including can- celled demand statements.	Irrecoverable items.
	1	5- EC 30(4)	2	3	4	5
			Rs.	Rs.	Rs.	Rs.
1007 00			3,69,789	5,59,883	32,356	19,796
1887-88	***		5,59,883	5,79,983	42,666	14,074
1888-89	•••	AR ST.	5,79,983	5,09,188	80,282	20,592
1889-90	•••		5,09,188	4,72,113	48,674	16,476
1890-91	•••	•••	4 79 119	4,04,120	38,421	12,126
1891-92	•••		4,72,113	2,26,174	61,576	11,168
1892-93	•••		4,04,120	1 70 025	29,034	4,818
1893-94		•••	2,26,174	1,72,235	14,367	4,815
1894-95	11 to 12 12 12 12 12 12 12 12 12 12 12 12 12	Latitude ***	1,72,235	77,498	8,573	5,371
1895-96	•••	•••	77,498	67,460	29,640	2,605
1896-97		ad 1736	67,460	25,464	29,040	2,000
Average preceding	of nine		3,74,554	3,40,961	39,550	12,137

The improvement in administration, which has been remarked in recent years, steadily continues, and is still more pronounced than in the previous year. The balance uncollected at the end of the year was Rs. 25,464, as compared with Rs. 67,460 at its commencement.

The amount remitted was Rs. 29,640 against Rs. 8,573 in 1895-96. excess occurred in the Orissa Project, where Rs. 15,500 were remitted on lands that came under lease late in October, and so did not benefit by the water supplied.

The collection work of each canal is shown in the following table :-

Canal.		Demand.			Collections (including remissions)			Percent- age of total collec-
OARAD.	Arrear. Current. Total. Arrear. Current. Total.	tion on current demand.	tion on total demand					
1	2	3	4	5	6	7	8	9
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.		
Orissa Midnapore Sone	48,774 15,220 25,578	2,21,086 1,00,565 9,48,280	2,69,860 1,15,785 9,73,858	48,749 14.311 25,124	2,16,514 90,035 9,39,306	2,65,263 1,04,346 9,64,430	97·93 89·52 99·05	98·29 90 12 99·03

The collections made under navigation (excluding miscellaneous navigation receipts and those of the transport services) are shown below for ten

	YEAR.		Orissa Canals.	Midnapore Canals.	Hijili Tidal Canal.	Sone Canals.	Total.	Miles open.	Tollage per mile.
11 - 19 (1 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 /	1	100	2	3	4	5	6	7	8
a 1976 K			Rs.	Rs.	Rs.	Rs.	Rs.	Miles.	Rs.
1887-88			66,628	1,26,574	40,406	50,984	2,84,592	490	580.7
1898-89			69,830	1,46,760	53,910	52,162	3,22,662	4961	649.9
1889-90			78,039	1,45,356	40,338	51,189	3,14,925	4961	634.3
1890-91	***		1,06,961	1,10,830	27,145	56,593	3,01,529	4961	607.3
1891-92	•••		1,20,761	1,32,572	36,348	57,339	3,47,020	5241	662.2
1892-93			1,00,503	1,14,141	52,180	49,996	3,16,820	5241	604.3
1893-94			1,19,115	1,14,994	58,209	50,548	3,42,866	5244	654 0
1894-95			96,220	1,35,492	67,089	49,349	3,38,150	5241	645.0
1895-96		•••	1,42,617	1,43,918	60,640	51,370	3,98,545	5241	760.6
1896-97	•••		1,58,262	1,54,215	89,390	56,445	4,58,312	5244	874-2
	ge of nin		1,00,075	1,30,071	47.363	52, 170	3,29,679		

The navigation receipts exceed those of the previous year by nearly Rs. 59,800. and are by far the largest yet recorded.

9. The miscellaneous revenue amounted to Rs. 96,660 as compared with Rs. 80,660 in 1895-96, the average for the previous nine years being Rs. 67,060.

10. The results of the year's working have, on the whole, been very favourable. The receipts from Major Works very largely exceeded those of the previous year, and were far above the average of the preceding nine years. The working expenses showed a reduction, and were lower than at any period during the last nine years. The net revenue was more than four times that of last year, and exceeded the average of the previous nine years by over five lakhs of rupees.

As regards Minor Works there was a decrease in receipts, but there was also a slight reduction in working expenses; the net revenue, however, was less

than in 1895-96, and was much below the average.

11. The working of each canal system will now be separately considered,

commencing with the Orissa Canals.

The Capital outlay on works during 1896-97 amounted to Rs. 14,895, and was chiefly confined to the completion of the protective embankment on the right bank of the Byturni river, and some of the distributaries of the Jajpur Canal. The work of raising and strengthening the flood bank of the Kendrapara Extension Canal was in progress at the close of the year.

12. The receipts on the revenue account were Rs. 4,72,947, as compared with Rs. 4,16,804 in 1895-96, and an average of Rs. 3,45,316 for the preceding nine years. The increase in water-rates amounted to Rs. 22,129, a smaller result than might have been looked for; but the Superintending Engineer explains that the increased area brought under irrigation will affect the revenue more in the current year than in that under review. A considerable part of the area brought under lease was not assessed for 1896-97, and of the remainder the

assessments were not all completed within the year.

The navigation receipts exceeded those of the previous year by Rs. 25,722. The trade in rice which was very active in 1895-96 was well maintained, and the construction of the East Coast Railway led to the transport of an increased quality of metals and building materials. The Superintending Engineer is of opinion that the continuance of the exports of rice, notwithstanding flood and drought, shows that the general state of the Orissa districts is far superior to what it must have been 30 years ago, and that the benefit conferred on Orissa by the canals, and by a more systematic control and repair of flood embankments, is a material one.

13. The area irrigated during the year was 185,048 acres against 119,460 in 1895-96. The rainfall though plentiful, was not well distributed, and there was an almost complete absence of rain in October and November, which

resulted in a great demand for water.

The area leased for a term of years increased from 112,938 acres to 188,332

14. The transport service was worked at a profit of Rs. 21,324 against Rs. 15,683 in the preceding year. The charge for tollage, which is practically a receipt, is omitted from the cost of working. There was again a considerable increase in traffic, largely due to the railway works which are now under construction, and the against the largest transport to the railway works which are now under construction, and the against the largest transport to the railway works which are now under construction.

struction, and the earnings are the largest yet recorded.

15. The result of the collection of water-rates shows a balance at the end of the year of Rs. 4,597 against Rs. 34,343 at the close of 1895-96; a very small balance as compared with previous years. The collection was good, and the adjustment of practically the whole of the arrears is satisfactory. The number of objections to assessment was almost the same as in the preceding year. The amount remitted or written off was Rs. 18,486, which is large compared with the last few years. It includes, however, Rs. 15,500 remitted on lands that came under lease late in October, and therefore did not receive benefit from the water.

16. The number of certificate cases instituted during the year was 1,989 against 2,497 in 1895-96. The Lieutenant-Governor notes with satisfaction the continuance of the improvement which was remarked in last year's report. Only two cases were pending at the close of the year against 165 at its

commencement.

17. The working expenses of the Crissa Canals amounted to Rs. 4,95,743, as compared with Rs. 4,72,395 in 1895-96, and Rs. 4,83,320 in 1894-95. The increase is considered to be temporary, and is due mainly to the effects of a high and prolonged flood in the Mahanadi which did much damage, and choked the heads of the Taldanda and Kendrapara Canals with sand. The Kendrapara Extension Canal was practically wrecked by this flood, and its restoration

is being treated as a separate work.

18. On the Midnapore Canal the financial result of the year's working is satisfactory. The receipts rose from Rs. 2,63,633 to Rs. 2,78,667; the expenditure was less than that of the previous year by Rs. 42,804, and the net revenue amounted to Rs. 45,358. The receipts from water-rates slightly exceeded those of last year. There was good rainfall at the beginning of the season, but it ceased in September, and the demand for water during the remainder of the season was very great. The area irrigated was 65,183 acres, or almost exactly the same area as in the previous year. A much larger area would have been irrigated had it not been necessary to refuse all applications after the 20th October, on account of the small discharge available from the Cossye river. It may be noted, however, that long-term leases for 17,201 acres expired at the end of 1895-96, whereas leases for 20,044 acres were executed during the year, so there has been no falling off.

It was remarked last year that the reluctance of the cultivators to renew expired leases was apparently due to discontent regarding certain of the rules in force, and that a proposal to relax some of the rules was under the consideration of Government. During the year under review a concession has been granted as regards remeasurement of the area to be leased; the imposition of the 12-anna rate, under Rule 8, for villages which did not renew their leases the same year in which they lapsed, has been abolished; and all water-rates above Rs. 5 are now collected in two instalments. The effect of these concessions cannot, however, be gauged this year: the character of the season was such that there is no doubt that the leases would have been

renewed if the concessions had not been granted. Navigation receipts rose from Rs. 1,43,918 to Rs. 1,54,215, and were the highest on record during the

19. The progress in the collection of water-rates was not altogether satisfactory, the balance at the end of the year being Rs. 11,439 against Rs. 10,124 in 1895-96, and Rs. 4,549 in 1894-95. The large balance is explained to be due to certain unfavourable incidents which retarded the work of collection. A sum of Rs. 2,563 on account of unauthorised irrigation could not be collected, as the cases were disposed of in February and March; the late date on which some villages applied for leases, and the payment of sums over Rs. 5 in two instalments, also told upon the collections to a certain extent. The amount remitted or written off was Rs. 3,727, as compared with Rs. 477 in the previous year. This large increase is due to the remission of Rs. 2,854 on account of the penalty rate of 12 annas imposed during 1895-96, and also to the deficient supply of water for which remissions had to be granted. The number of certificate cases instituted during the year was 565 against 286 in 1895-96, the increase being due mainly to the efforts made by the Special Deputy Collector to collect arrear demands. The number of cases outstanding at the end of the year was 31 against 58 in the preceding year. 20. The

working expenses of the Midnapore Canal amounted to

Rs. 2,33,309, and were less than those of the previous year by Rs. 42,804.
21. The Capital expenditure on the Hijili Tidal Canal amounted to Rs. 36,362, and was chiefly incurred in completing the supply channel at Terapakia, and lengthening the Kalinagar lock. The lock was opened to traffic on the 18th June 1896. There was a very satisfactory improvement in the traffic on the canal; the navigation receipts having increased to Rs. 89,511 from Rs. 60,677 in the preceding year. The number and tonnage of boats was much larger, and there was also an increase in the number of passengers

The working expenses were Rs. 40,191 or Rs. 21,207 less than those of the previous year. The net revenue amounted to Rs. 50,755. The result of the year's operation is very gratifying, and now that through traffic has been re-established by the opening of the Kalinagar lock, still better returns may

be looked for in future years.

22. The Sone Canals showed a net revenue of Rs. 4,62,181 as compared with Rs. 1,90,882 in 1895-96, and an average of Rs. 1,18,275 for the last nine years. The total receipts amounted to Rs. 10,59,645 against Rs. 7,65,316 in 1895-96. The receipts from water-rates increased from Rs. 6,77,714 to Rs. 9,57,726, and the navigation receipts rose to Rs. 70,006 from Rs. 61,261 in the previous year. The miscellaneous revenue was Rs. 36,961 against Rs. 33,148 in 1895-96. The working expenses were Rs. 5,97,464 as compared with Rs. 5,74,434 in 1895-96, Rs. 7,06,739 in 1894-95, and Rs. 7,40,976 in 1893-94. The cost of "Maintenance and Repairs" was larger than in the previous year, mainly because there was a closure of the canals during the year under review, and partly because extra silt clearance in front of the locks on the canals was necessary, on account of the unusually large amount of silt in the water. The measures adopted to check the deposit of silt at the heads of the canals continued to work successfully, but the results were not quite so good as those of the preceding year. The cost of silt clearance and dredging was Rs. 19,936 against Rs. 13,113 in 1895-96 and Rs. 76,674 in 1894-95.

23. The area irrigated was 555,156 acres as compared with 395,222 acres in 1895-96, and an average of 3,58,022 acres for the preceding nine years. This is the largest area ever irrigated by the Sone Canals. Until this year the largest area watered was in 1891-92 when it reached 474,723 acres. area under kharif was 55,456 acres more than in the previous year, and in the rabi season the increase amounted to 100,047 acres. The rainfall was abnormally bad in the kharif season, and it ceased entirely about the middle of September. The Sone Canals did good work in saving from almost entire destruction some 300,000 acres of rice crops. The value to the people of this crop was at least 150 lakhs of rupees—a sum which is more than half the capital cost of the canals. The year was one of extreme pressure on the canal officers; the area of long-term leases to be measured was unusually large, and the work of distributing the supply was severe. The capacity of the canals was strained to its utmost limit, and discharges were passed into them exceeding anything hitherto attempted. The arrangements made were excellent, and no accidents occurred. Such was the anxiety of the people to obtain water, that several attempts were made to cut the canals, and by order

of the Lieutenant-Governor special measures were adopted by the Police to protect the banks. The Superintending Engineer remarks that the year's report shows on almost every page results which are better than any which have been declared before.

While realising that this is due in a great degree to the nature of the season itself, it is only true to say that such results could not have been obtained without hard work, patience, and cheerful co-operation among all members of the staff. The Lieutenant-Governor heartily concurs in this opinion, and desires to acknowledge the excellent work done by the Superintending Engineer and his staff.

- 24. The continued progress in the collection of water-rates is viewed by the Lieutenant-Governor with great satisfaction. The arrears outstanding on the 1st April 1896 amounted to Rs. 22,993, the current demand for 1896-97, including arrears, was Rs. 9,73,858, and of this sum Rs. 9,58,925, or 98 per cent., were collected. The unadjusted balance at the close of the year was Rs. 9,428. The current demand is unusually large, the arrears are unprecedentedly small, and the percentage of collections is better than that of any previous year. The collections were made with very little friction, and the results are creditable to the Deputy Collector Maulvi Syed Mohomed Nassiruddin and his staff.
- 25. The amount remitted was Rs. 5,505 against Rs. 5,017 in 1895-96. The number of objections to assessment increased from 3,686 to 9,005, and the number undisposed of at the end of the year was 1,040 against 511. An increase in objections was only to be expected in a year of such large irrigation. The number of certificate cases instituted decreased from 1,253 to 1,036, and was less than in any previous year. Only eight cases were left undisposed of at the end of the year—a very satisfactory result.

26. An abstract of the result of the crop experiments made in the Sone and Orissa Circles in 1896-97 is given below:—

gmi.)		Quality of over	OUTTURN	PER ACRE.
		Quality of crop.	Paddy.	Straw.
1		2	3	4
Orissa Sone	::	Good and average Ditto	Mds. 24·2 27·7	Mds. 32·9 54·5

The rules for conducting crop experiments, which were referred to last year as being framed, have been issued, but they were not brought fully into operation during the year under review.

27. The following statement exhibits the financial results of the canals classed as Minor Works and Navigation. The Eden Canal has been included, as revenue is derived from it, though neither Capital nor Revenue Accounts are kept. The Saran Canals, for which Capital and Revenue Accounts are kept, are excluded: the revenue obtained from them is insignificant:—

	CAPITAL EX	PENDITURB-	Receipts.	germanistick g	etroposiones Surriconnector	Average net income
	Of year.	To end of year.		Expenditure.	Net income.	of 9 years ending 1895-96.
10.5.1 miles 1	2	3	4 le	6	6	7
abre terriore un 1920	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Calcutta and Eastern Canals Orissa Coast Canal Nadia Rivers Eden Canal	4,68,975 20,682 Nil Nil	59,55,328 44,98,290 Nil Nil	4,39,938 86,141 93,474 36,535	2,80,759 87,783 1,30,818 1,08,457	(+)2,09,179 (-) 1,642 (-) 37,344 (-) 71,922	(+) 49,912 (-) 16,002
Total	4,89,657	1,04,53,618	6,56,083	5,57,817	(+) 98,271	(+) 2,36,530

28. The Calcutta and Eastern Canals are purely navigation works. The receipts amounted to Rs. 4,39,938 as compared with Rs. 4,55,244 in the previous year, and the working expenses were Rs. 2,30,759 against Rs. 2,91,640 in 1895-96. The net revenue increased from Rs. 1,63,604 to Rs. 2,09,179. The increase is due to the way in which the establishment charges have been apportioned between the works under Capital and Maintenance, the whole cost of the establishment having been debited to the former head. The total number of boats of all classes using the canals was less than in the previous year, but there was an increase in the number of boats above 25 maunds. The number of steamers and flats increased from 312 to 349. Notwithstanding the decrease in tollage, the receipts may be considered satisfactory when the failure of the rice crop in the Eastern district is taken into account. On rice alone the loss of tolls amounted to Rs. 40,610 as compared with 1895-96. Sundarbans route was used by 1,336 steamers and flats against 1,482 in the preceding year. During the last ten years the tolls realised from the Sundarbans route have amounted to Rs. 55,285, while the expenditure during the same period was Rs. 57,390; it is therefore evident that the tollage receipts do not pay for the maintenance of the route. The question of improving that pay for the maintenance of the route. The question of improving that portion of the route upon which large expenditure has to be incurred periodically, should be carefully considered.

Very good progress was made in the work of canalizing a portion of the Eastern Canals between Kulti and Bamonghatta, known as the Bhangore khal, and Rs. 4,53,926 were expended during the year. Rupees 9,851 were spent on the improvement of the bhil route connecting Khulna with Madaripore.

29. The receipts from the Orissa Coast Canal amounted to Rs. 86,141 against Rs. 88,328 in 1895-96. The expenditure on maintenance rose from Rs. 70,119 to Rs. 87,783, the large increase being entirely due to the extensive repairs to the Bhaitghur lock. Under the Capital Account Rs. 20,273 were expended, chiefly on remodelling some of the escapes, constructing a new escape in the 106th mile, and dredging uncut portions of Range V. The financial results of the year are not satisfactory, the net revenue being (-) Rs. 1,642 as compared with Rs. 18,209 in the previous year. The falling off in the receipts is ascribed to the closure of the canal for repairs. The amount of tollage paid by steamer companies using the canal was less than in 1895-96, and there was a great reduction in the number of passengers carried, which is attributed partly to the closure of the Bhaitghur lock, and partly to more strict supervision by Government over the number of passengers carried by each steamer. The steamers stopped running at night altogether for some time, as the number of passengers allowed by the rules for night journeys is much less than for day journeys.

The receipts from the Nadia rivers were Rs. 93,474 as compared with Rs. 1,20,046 in the previous year. The working expenses were reduced from Rs. 1,46,281 to Rs. 1,30,818. The cost of maintenance showed a marked decrease, but there was a serious falling off in the receipts. The net revenue was (-) Rs. 37,344 or Rs. 11,109 less than that of the preceding year. The average receipts for the previous nine years were Rs. 1,74,235, and the average expenditure Rs. 1,24,323. The total number of steamers and boats

fell from 47,300 to 41,484, and the tonnage from 591,718 to 434,720.

These unfavourable results are entirely due to the early closure of the route, which was mainly caused by the low floods in the Ganges during the rains. Most of the boats from the Bihar and Malda districts, which would otherwise have used this route, were compelled to travel to Damukdea, where their cargoes were transhipped for conveyance by rail to Calcutta. The steamer services too, in consequence of the insufficient depth of water in these rivers, had to use the route through the Sundarbans throughout the season. Another cause of the decrease in receipts is the competition of the East Indian Railway, which gives more favourable rates for traffic during the flood months, when the rivers can compete for the Ganges traffic.

The decline of traffic on these rivers, which has been the subject of remark for several years past, unfortunately continues unabated, and was this year aggravated by the unusually low level of the Ganges. The Superintending Engineer remarks that there will never be an increase of toll collections, unless the relation of the Ganges to the heads of the Nadia rivers becomes such that one or other of the rivers can be kept open at a moderate cost

throughout the year.

During the year every possible endeavour has been made to keep expenditure down to a minimum. This course should be steadfastly pursued, while at the same time unremitting attention is devoted to the question of keeping open a line of navigation throughout the year.

31. The area irrigated from the Eden Canal during 1896-97 was 21,294 acres as compared with 36,221 acres in the preceding year. The decrease of 14,927 acres was chiefly due to the non-renewal of the leases, which expired in 1895-96 in the Hooghly district, for want of proper means of irrigation. Two new distributaries are being constructed, and with improved means of distributing the water, it is probable that a much larger area will be irrigated in future. The water-rate collections amounted to Rs. 36,775 against Rs. 30,690 in the previous year, and the unrealised balance at the close of the year was Rs. 26,518 as compared with Rs. 33,883 in 1895-96. The improvement in the collection work is satisfactory. The expenditure amounted to Rs. 1,08,457 against Rs. 55,970 in the preceding year; but out of this total a sum of Rs. 51,676 was expended on the construction of the new distributaries, the actual expenditure on maintenance being about normal.

actual expenditure on maintenance being about normal.

32. The Saran Canals were closed during the two previous years, but in the rabi season of 1896-97, when it was found that no one would come forward to pay the lump sum required for the opening of a sluice, the canals were opened for irrigation on a system of individual assessment. The area irrigated was 4,080 acres. The collection of water-rates was undertaken by the Collector of the district; the assessments amounted to Rs. 6,416, a sum of Rs. 120 was remitted, and Rs. 30 were collected, leaving a balance of Rs. 6,266 at the close of the year. The working expenses were Rs. 11,934

and the receipts Rs. 934, giving a net revenue of (-) Rs. 11,000.

The result of opening the canals is disappointing, the supply of water was

inadequate, and it failed entirely when it was most needed.

33. The Madhuban Canal is stated to have irrigated 11,251 acres against 2,254 acres in 1895-96. The figures, however, are not reliable as the area is not measured. No measuring establishment is maintained, nor are water-rates levied. The expenditure was Rs. 5,791 as compared with Rs. 3,808 in the previous year. A distributary from this canal has been undertaken as a famine relief work.

34. The re-excavation of the Gaighatta and Buxi khal was completed in 1895-96. This channel, which is $7\frac{1}{2}$ miles in length, and connects the Rupnarain and Dadmodar rivers, was taken over by the Public Works Department

in 1894.

The cost of maintaining the channel during the year was Rs. 684, and the receipts amounted to Rs. 3,820, the net revenue being Rs. 3,136. The right of collecting tolls on the *khal* has been leased for five years from 1896-97 at an annual rental of Rs. 4,500. Rupees 3,800 were realised before the 31st March 1897.

35. The thanks of Government are due to the following officers for the

excellent services rendered by them during the year:-

Mr. Buckley, Superintending Engineer, Sone Circle.

Mr. Horn, Superintending Engineer, South-Western Circle.

Mr. Inglis, Superintending Engineer, Orissa Circle. Mr. Barlow, Executive Engineer, Cossye Division. Mr. Butler, Executive Engineer, Buxar Division.

Mr. Searight, Executive Engineer, Eastern Sone Division.

Mr. DeMello, Executive Engineer, Arrah Division.

Order.—Ordered that a copy of this Resolution and of the Chief Engineer's note and its accompaniments be submitted to the Government of India in the Public Works Department and published in the Calcutta Gazette. Also that it be circulated to other Governments and to all Departments and officers of this Government as usual.

By order of the Lieutenant-Governor of Bengal,

A. S. THOMSON,

Under-Secretary to the Government of Bengal, Irrigation Department.

Gobernment of Bengal.

IRRIGATION DEPARTMENT.

REVENUE REPORT.

Note by Colonel A. D. McArthur, R.E., Chief Engineer, on the Canal Revenue
Reports of Bengal for the year 1896-97.

THE Capital expenditure on Irrigation Works in 1896 97 was as follows:

	Direct charges.	Indirect charges.	Total.
	Rs.	Rs.	Rs.
Capital expenditure on Major Irrigation Works not charged against Revenue Capital expenditure on Minor Works and	28,029	1,484	29,513
Navigation, for which Capital and Revenue Accounts are kept	4,73,471	14,986	4,88,457
Total	5,01,500	16,470	5,17,970
	-	-	

2. The total Capital outlay at the end of the year 1896-97, including indirect charges, was:—

gterinia administrativa suote es sociale. Ny variana mandri dia		Direct charges.	Indirect charges.	Total.
Major Irrigation Works-		Rs.	Rs.	Rs.
Productive Public Works		6,24,64,226	17,45,365	6,42,09,591
Minor Works and Navigation-		A		
Protective grants—Imperial		8,66,000		8,66,000
Ordinary revenue Imperial and Provincial.	}	1,07,44,011	3,04,215	1,10,48,226
Total		7,40,74,237	20,49,580	7,61,23,817
			-	-

3. The outlay abstracted above is shown in the following statement divided under the different projects:—

	Du	ring 1896-9	07	То	end of 1896-9	97.
Works.	Direct charges.	Indirect	Total.	Direct charges.	Indirect charges.	Total.
1	2	3	4	5	6	7
Major Irrigation Works-	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Orissa Canals	14 005	288	15,183	2,56,56,103	5,80,926	2,62,37,029
Midnapore Canal	6,060	159	6,219	82,75,723	1,84,529	84,60,252
Hijili Tidal Canal	. 36,362	788	37,150	25,51,429	63,513	26,14,942
Sone Canals	(-)29,288	249	()29,039	2,59,80,971	• 9,16,397	2,68,97,368
Total	28,029	1,484	29,513	6,24,64,226	17,45,365	6,42,09,591
Minor Works and Navigation-					A CARCON	,
Firhut project		•••	***	5,31,425	74,650	6,06,075
Damodar project	. (-)1,200		(-)1,200	1,41,541	16,239	1,57,780
Calcutta and Eastern Canals	4,54,398	14,577	4,68,975	58,75,537	79,791	59,55,328
Orissa Coast Canal	20,273	409	20,682	43,91,938	1,06,352	44,98,290
Saran Canals				6,69,570	27,183	6,96,753
Total	4,73,471	14,986	4,88,457	1,16, '0,011	3,04,215	1,19,14,226
GRAND TOTAL	6,01,500	16,470	6,17,970	7,40,74,237	20,49,580	7,61,23,817

REVERUE.

4. The statement below shows the totals for the last five years of the receipts, working expenses, and interest charges for Major Irrigation Works:-

Particulars.	1892-93.	1893-94.	1894-95.	1895-96.	1896-97.
1	2	3	4	6	6
	Rs.	Rs.	Rs.	Rs.	Rs.
Receipts from all sources (less refunds of revenue)	18,83,347	16,65,005	15,20,127	15,07,729	19,02,205
Working expenses (direct and in- direct charges)	14,85,393	15,41,144	14,62,049	13,84,340	13,66,707
Net revenue Charges for interest	* 3,97,954 24,42,363	1,23,861 24,61,878	58,078 24,81,895	1,23,389 24,94,499	5,35,498 24,98,009
Deficit	20,44,409	23,38,017	24,28,817	23,71,110	19,62,511
Rate per cent. on Capital outlay	3:24	3.68	3.79	3.69	3-06

5. The total amount of interest payable to the Imperial Treasury on account of Major Irrigation Works for the year 1896-97 is Rs. 24,64,143.

6. The financial results of Major Irrigation Works to the end of the year **INANCIAL 1896-97 were as follows:--

		I	Major rrigation Works
Direct revenue Working expenses (direct charges)		:::	Rs. 2,81,06,079 2,66,31,983
Results on direct charges only Indirect charges debitable to revenue		Profit	14,74,096 15,54,531
Results on both direct and indirect charge Charges for interest on Capital	es	Loss	(—)80,435 5,36,11,081
Net results, including interest to end of	1896-97	Loss (-)5,36,91,516

7. The financial results to the close of the year 1896 97 of Minor Works and Navigation are shown below:—

	Works for which capital and revenue accounts are kept.	Works for which only revenue accounts are kept.
Direct revenue Working expenses (direct charges)	Rs. 2,50,37,401 1,09,45,099	Rs. 91,03,004 52,36,694
Results on direct charges only Indirect charges debitable to revenue	rofit 1,40,92,302 3,30,400	38,66,310 2,82,887
Results on both direct and indirect charges P	Profit 1,37,61.902	35,83,428

8. The following statement shows the financial results of Irrigation, Navigation, and Agricultural Works during the year, compared with those of 1895-96:—

	1895-96.	1896 97.
RECEIPTS.	$\mathrm{Rs}.$	Rs.
XXIX—Major Irrigation Works—Direct Receipts— Provincial XXX—Minor Works and Navigation—	15,15,315	19,09,613
Irrigation and Navigation Works— Provincial	7,01,875	6,62,112
Total	22,17,190	25,71,725
Expenditure.		
42—Major Irrigation Works—Working expenses— (Direct and indirect charges) Provincial 43—Minor Works and Navigation—	13,91,926	13,74,115
Irrigation and Navigation Works— (Direct and indirect charges) Provincial	5,83,295	5,86,554
Total	19,75,221	19,60,669
NET REVENUE FROM IRRIGATION AND NAVIGATION WORKS	2,41,969	6,11,056
49—Imperial—Capital expenditure not charged against Revenue	(-)9,799	(-)27,730
43—Provincial—Capital expenditure charged against Revenue	3,30,457(a) 5,45,700(b)
	3,20,658	5,17,970

^{*} Inclusive of refunds of revenue.

(a) Includes Rs. 1,63,681 on account of Major Irrigation Works classed as 43—Minor Works and Navigation, under the orders of the Government of India.

(b) Includes Rs. 5,7243 on account of Major Irrigation Works classed as 43—Minor Works and Navigation, under the orders of the Government of India.

			1895-96.	1896-97.
gation-	•		Rs.	Rs.
	10 m = 10 m			
7. D. Officers			8,672 84,256	12,129 1,32,995
	Total	•••	92,928	1,45,124
			313-11-74	
		:::	6,81,987 11,928	6,77,170 9,271
	Total .		6,93,915	6,86,441
	7. D. Officers	7. D Officers Total	7. D	Rs. 7. D 8,672 S4,256 Total 92,928 6,81,987 11,928

Besides the expenditure shown above, Rs. 31,488 were expended on 33 Famine Relief, Minor Works and Navigation—Provincial, viz., Rs. 10,620 on the Bagmati, Dhaka and Tribeni Canals, and Bya Nala cut, classed as works for which neither Capital nor Revenue Accounts are kept; Rs. 4,024 on the Saran project, for which Capital and Revenue Accounts are kept; and Rs. 16,844 on Agricultural Works, for which neither capital nor revenue accounts are kept, such as Government embankments in Champaran and Nadia.

ABBAS IRRI-GATED. 9. The areas irrigated by the Major Irrigation Works, during the year 1896-97, and the five previous years, are shown in the following statement:—

1	OR	183A C	ANALS		MIDNAPORE CANAL.				SONE CANALS.				TOTAL.			
Year.	Kharif.	Rabi.	Perennial.	Total.	Kharif.	Rabi.	Perennial.	Total.	Kharif, in- cluding five- year and long- term leases.	Rabi, includ- ing five-year and long-term leases.	Perennial and hot-weather.	Total.	Kharif.	Rabi.	Perennial.	Total.
1	2	8	4	5	6	7	8	9	10	11	12	13	14	15	16	17
891-92	Acres. 178,453	Acres.		Acres. 177,685	Acres. 83,905	Acres.	Acres.	Acres.	Acres. 296,219	Acres.	Acres. 1,196	Acres. 474,723	Acres. 553,577	Acres.	Acres.	Acre 736,3
892-93	158,025	2,594	833	160,952	91,217			*91,217	274,839	126,195	9,727	410,761	524,081	128,789	10,060	662,9
893-94	100,406	2,904	216	103,526	85,763			*85,763	280,528	66,458	19,790	366,776	466,697	69,362	20,006	556,
894-95	118,116	4,102	843	122,561	69,941	175		*70,116	258,361	41,664	17,109	317,134	446,418	45,941	17,452	1
895-96	111,131	7,909	420	119,460	65,251			65,251	261,485	115,343	18,394	395,222	437,867	123,252	The state of	
1896-97	171,373	13,300	375	185,048	65,183			65,183	316,941	215,390	22,825	555,156	553,497	228,690	21,200	805,

Exclusive of lands surreptitiously irrigated, for which leases were granted in subsequent years.

The results of the working of each of the canal systems of the Province during the year will now be described separately, as in previous years.

GENERAL.

In all statements showing totals of receipts or expenditure, the figures are those of the Examiner of Accounts. In dealing with details, the figures of the Commissioner, or of the Superintending Engineer, have been taken.

ORISSA CANALS.

10. The Capital, Interest, and Revenue Accounts of these canals are given below:-I .- CAPITAL ACCOUNT.

HEADS OF ACCOUNT.	Outlay during 1896-97.	Outley to end of 1896-97.
1	2	8
DIRECT CHARGES.	Rs.	Rs.

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		2	3
DIRECT CHARGES. I.—Works II.—Establishment III.—Tools and plaut IV.—Suspense accounts Loss by exchange		Rs. 9,945 2,059 3,405	Rs. 1,87,20,552 46,54,054 20,65,399 34,779 2,68,070
V.—Less—Receipts on Capital Account	:::	15,409 514	2,57,42,854 86,751
Net total Direct Charges		14,895	2,56,56,103
INDIRECT CHARGES. Capitalization of abatement of land-revenue Leave and pension allowances		288	33,233 5,47,693
Total Indirect Charges		288	5,80,926

No new work of any importance was done during the year. The Kendra-para Extension Canal was seriously breached by the high flood of July-August 1896, and it has been raised and strengthened. The work was in progress at the end of the year under review. The chief work remaining to be done for the Orissa Canals is the construction of permanent outlets.

2.-INTEREST ACCOUNT.

Interest charges to end of 1895-96 2,07,13,551 Ditto for 1896-97 10,25,946 . Total ... 2,17,39,497

3 .- REVENUE ACCOUNT-(Actuals).

	EXPEN	DITURE-		Receipts.		
Particulars.	During 1895-96.	During 1896-97.	Particulars.	During 1895-96.	During 1896-97.	
1	2	3	4	5		
DIRECT CHARGES.	Rs.	Rs.		Rs.	Rs.	
I.—Works, mainten- ance, and repairs	3,61,572	3,74,562	Water-rates	2,24,648	2,46,777	
II.—Revenue manage-	80,059	89,913	Navigation Miscellaneous	1,68,378 24,196	1,94,100 33,340	
Total Direct Charges	4,41,631	4,64,475	Total Less—Refunds of	4,17,222	4,74,217	
All Landson See St. Commission of the Commission			revenue.	418	1,270	
INDIRECT CHARGES	80,764	31,268	Net total receipts Deficit	4,16,804 55,591	4,72,947 22,796	
Total Working Expenses	4,72,395	4,95,748	Total	4,72,395	4,95,743	

Note.—The details by heads of expenditure for the year 1896-97 and nine preceding years will be found in the table given in paragraph 12 following.

There was an increase of Rs. 56,143 in the receipts, and of Rs. 23,348 in expenditure, the result being a deficit of Rs. 22,796, against Rs. 55,591 in 1895-96 and Rs. 1,50,975 in 1894-95.

11. The following statement compares the earnings with the outlay for the last two years. The term "earnings" as applied to Irrigation denotes the assessed water-rate value of the Irrigation effected during the year; as applied to Navigation it denotes the amount of tollage assessed during the year, together with the actual realizations of miscellaneous revenue charged to Navigation. The miscellaneous earnings are the actual receipts during the year under this head:—

			1895-96.	1896-97		
Earnings. Irrigation Navigation Miscellaneous	on tion		tion		Rs. 1,71,025 1,71.472 24,196	Rs. 2,63,420 1,95,418 33,340
Deduct refund	otal Is	::.	3,66,693 418	4,92,178 1,270		
Net earnings Outlay			3,66,275 4,72,395	4,90,908 4,95,743		
Net deficit			1,06,120	4,835		

FINANCIAL

LABBINGS.

12. The revenue receipts and working expenses for the last ten years are tabulated below:—

PARTICULARS.	1887-88,	1888-89.	1889-90.	1890-91.	1891-92.	1892-93.	1893-94.	1894-95.	1895-96.	1896-9
1	2	8	.4	5	6	7	8	9	10	1 #
								- 1		
RECEIPTS.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Water-rates	1,37,869 71,004 14,171	1,51,365 77,908 14,242	1,99,844 88,632 15,747	2,09,806 1,21,498 13,708	2,17,256 1,35,902 17,843	3,52,369 1,18,757 26,532	2,09,542 1,43,911 23,122	1,93,550 1,15,201 24,381	2,24,648 1,68,378 24,196	246, 1,94, 33,
Total	2,23,044 365	2,43,515 221	3,04,223 99	3,45,012 76	3,71,001 79	4,97,658 283	3,76,575 1,210	3,33,072	4,17,222 418	4,74,
Total recei t	2,22,679	2,43,294	3,04,124	3,44,936	3,70,922	4,97,375	3,75,365	3,32,345	4,16,804	4,72
Working Expenses.		. (6)	45							
Direct Charges.									19.	
Works, Maintenance and REPAIRS-		ELAI	OCTU-A A					n to the	ged.	
Works (extensions and im-				5.11	Apparate Monte Property					
Repairs	3,10,980	2,36,694	2,31,068	2,22,638	1,70,637	9,123 2,30,360	29,355 2,26,362	6,547 2,28,252	4,768 1,95,059	2,1
Establishment, including Di- rection and Accounts	98,153	70,201	1,09,434	1,32,859	1,19,775	1,20,391	1,24,048	1,09,706	1,39,684	1,8
Tools and plant	16,391	21,156	- 19,722	13,951 1,225	} 27,023	19,437	34,801	24,532	22,061	17
Total	4,25,524	3,28,051	3,60,224	3,70,673	3,22,436	3,79,311	4,14,566	3,69,037	3,61,572	3,74
		-					1		Alakira.	3
II.—REVENUE MANAGEMENT—								NO. AVSTORY, NO. (47)	Esperante de la companya de la comp	
Irrigation establishment Navigation ditto	40,300 15,125	43,161 15,734	55,502 15,871	52,591 16,119	57,074 16,506	78,996 16,917	73,988 16,840	69,681 17,095	63,239 16,820	79
Total	55,425	58,895	71,373	68,710	73,580	95,913	90,828	86,776	80,059	89
Total Direct Charges	4,80,949	3,86,946	4,31,597	4,39,383	3,96,016	4,75,224	5,05,394	4,55,813	4,41,631	4,64
Indirect Charges.						da i visi tu	4.665	2000		
Dapitalized abatement of land-		to abun	7.5	Er year state	Professional Services	es e Transi				
revenue	21,501	18,073	25,313	28,220	27,070	30,283	30,083	27,507	30,764	31
Total Indirect Charges	21,501	18,073	25,313	28,220	27,070	30,283	30,083	27,507	30,764	81
Total Working Expenses	5,02,450	4,05,019	4,56,910	4,67,603	4,23,086	5,05,507	5,35,477	4,83,320	4,72,395	4,9
Net revenue	(-)2,79,771	(-)1,61,725	(-)1,52,786	(-)1,22,667	(-)52,164	(-)8,132	(-)1,60,112	(-)1,50,975	(-)55,591	(-)25

13. The following statement gives the usual information concerning the canals and distributaries for 1896-97, compared with the previous DISTRIBUTA-RIES. year:-

# Arrisham					1895-96.							1	896-97.			
NAMES OF CANALS.	Navigable canals,	Canals for irrigation only.	Distributaries with village channels.	Area protected from flood.	Area under command.	Area provided with distri- butaries.	Area irrigated,	Percentage of area irrigated to area provided with distributaries.	Navigable canals.	Canals for irrigation only.	Distributaries with village channels.	Area protected from flood.	Area under command.	Area provided with distri- butaries.	Area irrigated.	Percentage of area irrigat. ed to area provided with
1	2	3	4	5	6	. 7	8	9	10	11	12	13	14	15	16	17
Mahanadi Series. landa hgong drapara ri with extension amundi drapara Extension h Lovel Canal, Range I	Miles. 514 4 39 24 15 33	Miles. 28 47	Miles. 991 2104 3742 374 1082	75,278 97,057 129,421 27,251 65,600 8,960 80,128	75,278 97,057 101,110 53,290 51,250 7,000 48,815	Acres. 24,755 81,681 97,506 21,855 44,959 48,815	Acres. 9,896 15,776 49,489 3,233 11,214 13,859	39*93 19*31 50*76 14*80 24*99	Miles. 512 4 39 24 15 33	Miles. 28 47	Miles. 991 2104 376 374 1064	Acres. 75,278 97,057 129,421 27,251 65,600 8,960 80,128	Acres. 75,278 97,057 101,110 53,290 51,250 7,000 48,815	Acres. 24,755 81,681 97,506 21,855 44,959 48,815	Acres. 17,505 27,909 52,577 8,167 16,820 20,545	70°71 34°17 53°92 37°37 57°41 42°08
al Mahanadi Series	1664	75	9621	483,695	433,800	319,571	103,467	32.38	1664	75	962	483,695	433,800	319,571	143,523	44.91
hmini-Byturni Series, Level Canal, Range II litto, do. III ur Canal	12½ 19 6½	=	49½ 79¾	60,000	10,000 57,500 70,000	44,047 86,987	892 10,105 4,996	22'94 13'51	$12\frac{1}{2}$ 19 $6\frac{1}{2}$		49½ 79¾	60,000	10,000 57,500 70,000	44,047 36,987	3,084 26,556 11,885	60·29 32·13
Brahmini-Byturni	38		1291	60,000	137,500	81,034	15,993	19.74	38		1291	60,000	137,500	81,034	41,525	*51*24
otal Orissa Canals	2044	75	1,0914	543,695	571,300	400,605	119,460	29.82	2044	75	1,091}	543,695	571,300	400,605	185,048*	46:19

3,019 acres of chaukidar's land which was exempted from assessment and irrigated free of charge in return for the assistance given in assessment and

The only alterations during the year have been the addition of 13 miles of distributary on the Kendrapara Canal, and the abandonment, as useless, of 24 miles of a minor distributary on the Pattamundi Canal.

14. The number of outlets which were in use during the year are given in the following table:-

Division.	Canal system.	Permanent outlets.	Temporary outlets.	Total.	Total area irrigated.	Average area per outlet.
1 *	2	8	4	5	6	7
galanda ayan da ayan d		No.	No.	No.	Acres.	Acres.
Mahanadi	Taldanda	60	575	635	17.505	28
D-1-1-1 D-1-1	Machgong	82	1,070	1,152	27,909	24
Brahmini-Byturni		164	2,643	2,807	52,577	19
	Gobri		116	116	4,514	39
Biometric Consult Control	Gobri Extension Pattamundi		104	101	3.653	35
Acquapada-Jajpur	THE R. LEWIS CO., LANSING, MICH.	8	504	512	16.820	33
Acquapada-vajpur	TO:AL TT	209	313	522	20,545	39
	This Ter		33	33	3,084	93
	Jainne		274	275	26,556	97
Andreas Comments	oajpur		263	263	11,885	***
hard a training	Total, 1896-97	524	5,895	6,419	185,048	28
	Total, 1895-96	417	4,543	4,960	119,460	24

The increase in the number of permanent outlets is not due to construction during the year, but to old outlets having been again brought into use.

RAINFALL.

15. The average rainfall of the last five years at thirteen stations, situated within the canal-irrigated area, is shown below for the kharif and rabi seasons:—

			Average	OF THIRTEEN	STATIONS.	
		1892-93.	1893-94.	1894-95.	1895-96,	1896-97.
	1	2	3	4		6
Kherif season	July August September October Total	8 08 10·71 5 66	Inches. 8:17 8:63 15:73 5:52 88:05	Inches. 16:34 9:59 6:79 6:37	Inches 8:89 15:91 8:37 5:46 38:68	Inches. 13:93 16:63 9:42 0:02
Rabi "	November December January February	2.00	0·09 0·02 0·18	3·07 0·03 0·02 0·60	0.41	0·03 0·01 2·87
	Total	4.74	0.29	3 72	0 41.	2.91
	Whole year	56.43	74.83	58.91	63.12	65.86

The average fall for the year was 65 86 inches, as compared with a mean average for the last 28 years of 58.46 inches. The total rainfall was above the average, but it was not well distributed. It was larger than usual in June, and it was deficient, or altogether absent, in October, when it was much wanted. The average rainfall recorded at the stations in the Central Provinces, from which the Mahanadi derives the greater part of its supply, was 66.58 inches in 1896-97, as compared with 50.99 inches in 1895-96.

FLOODS.

16. The maximum flood-levels recorded during the year are compared in the following Table with the maximum levels in 1895-96, and with the highest recorded levels:—

	. 30		Locality.		1	895-96				1896-97.		HIGHEST RE		DED
NAME OF	RIVER	331	Locality.		Date	е.		Read- ing.	Da	ite.	Read- ing.	Date.		Read-
	D COL		2		3			4		5	6	7		8
*	-1	1	Naraj above weir		1st July	1895		90.55	25th July	1896	92.10	26th July 1892		92*10
		1	Do. below weir		1st .,			90.22	25th .,		92'10	26th ,, ,,		92'10
Mahanadi		"]	Jobra above weir	•••	1st ,,			74.40	25th "	,,	75*75	25th ., ,,		75 9
		1	Do, below weir		1st "	*	***	73'40	25th "		74:65	25th ,, ,,	5	74.6
	A.S.	(Janapur above weir	.441	30th ,,			66.10	23rd ,,		68.80	26th ., 1894		69.6
Brahmini			Do. below weir	(44)	30th ,,	. 11		65.80	23rd ,,	its	67.90	26th ,, ,,		68.6
	PU	(Acquapada above weir	***	30th June			-59-45	24th ,,		66.30	16th ,, 1881		66.6
Byturni	***	(Do. below weir	1449	30th ,,	199		51'40	24th	11 700	63.70	16th	Sain-	63*75
Salindi			Randia		30th August	·w		53.75	28th ,,	n	57.00	12th Sept. 1887		59.78
Katjuri			Bellevue	***	1st July			81.15	25th .,		83.15	25th July 1892		83:3
	Tall	+	Jagatpur above weir		2nd ,,	**	-10	69:30	25th ,,	,,	72.00	25th ., 1896		72.0
Beropa	**	11	Do. below weir		2nd "			68:20	25th "		71.60	25th ,, ,,		71.6

The flood in the Mahanadi was very high, and was unusually prolonged. There were also very high floods in the Brahmini and Byturni.

A certain amount of damage was done to the flood embankments, and several breaches occurred.

17. The assessed areas for the last ten years, with the yearly rainfall, are shown in the following statement:—

YEAR		Kharif.	Rabi.	Perennial.	Total.	Rainfall.
1	T-0-77	2	3	4	5	6
		Acres.	Acres.	Acres.	Acres.	Inches.
1887-88		103,867	502	137	109,506	47.84
1888-89		156,319	2,779	194	159,292	49.07
1889-90		180,568	5,897	162	186,627	67.95
1890-91		175,829	4,250	220	180,299	63-17
1891-92		173,453	3,943	289	177,685	61.03
1892-93		158,025	2,594	333	160,952	56.43
1893-94		100,406	2,904	216	103,526	74.83
1894 95		118,116	4,102	343	122,561	58.91
1895-96		111,131	7,909	420	119,460	63.12
1896-97		168,533	13,121	375	182,029	65.86
	343.44			3 2 2 3 3		- Parte in

Note.—The area irrigated during the year was 185,048 acres. It includes 3,019 acres of Chaukidar's land which was exempted from assessment. (Vide paragraph 13).

18. The following statement shows the details of the assessments as of the compared with the figures of the two preceding years:—

	Rate per	1894-9	95.	1895	-96.	1896-	97.
CROP.	acre.	Area,	Amount.	Area.	Amount.	Area.	Amount.
1	2	3	4	5	6	7	8
	Rs. A. I	. Acres.	Rs.	Acres.	Rs.	Acres.	Rs.
(F	low 1 8	0 108,399	1,61,922	100,325	1,50,539	130,504	1,97,590
Dhoya L	ift 1 0 0 8	0 274 0 8,664 0 172	274 4,326	9,342	4,671 2,106	13,287 350	6,656 1,738
	ift 4 0 0 8	0 171	1,024			24	121
{F	low { to	0 3,440	4,429	7,909	11,588		
Rabi L	ift \ 0 5	0 662	657				
Dhoya (E		0	2,883		=	31	51
Additional Kharif demand (Rabi			1,390	2,084	20,173	35,119
	Dhoya	1 =		74	37	4,569	2,533 8
assessed after the close of the year.	Dhoya	4-2-				13,064	19,565
Additional rabi assessed { I after the close of the year. { I	Flow Dhoya	11.00	-		V 100	26	39
Total		122,561	1,76,202	119,460	1,71,025	182,029	2,63,42

The total areas leased and assessed, as compared with the previous year, are shown below:

Berline Harris	CROPS.		189	5-96.	1896-97.		
desagns to the later	Sweet Commence		Leased.	Assessed.	Leased.	Assessed	
Andrew Comments	1		2	3	4	5	
Long leases	 Season leases.	•	Acres. 112,938	Acres. 111,076	Acres. 188,332	Acres. 164,147	
Sugarcane Rice, Autumn Rabi (including I Unauthorized Ric	Dalwa rice)		421 55 7,909	420 55 7,909	375 4,849 13,459	375 4,386 13,121	
		Total	121,323	119,460	207,015	182,029	

The Superintending Engineer thus explains the difference between the areas leased and assessed:-

"It will be noticed that in the item long leases the area assessed is less than that leased by 24,185 acres. This is chiefly due to the fact that on account of the late date (middle of October) at which the applications for new leases were received, considerable areas did not in that season derive benefit from the water. The full area will come under assessment in the current year. The area of rabi assessed is also less than that leased. This is due to the fact that, owing to an unusual rise in the Byturni river in March 1897, some of the Dalwa rice in low lands which had been irrigated, was ruined, and had to be exempted from assessment.

Chaukidar's land to the extent of 3,019 acres was not assessed, free irrigation being

given in return for assistance in assessment and collection.

The area reckoned as irrigated, as given in the statement in paragraph 13, is 185,048 acres, which is the assessed area, plus the area of chaukidar's land exempted from assessment but irrigated."

The statement below shows the duties obtained in the kharif season on each of the canals, calculated on the gross discharge at the canal heads:-

Particulars.	Kendra- para Canal system.	Taldanda Canal system	Canal,	Canal.	High-Level Canal, Range III.	0
1	2	3	4	. 5	6	7
1896-97 { Kharif Acres Duty on gross supply 1895-96 { Kharif Acres Duty on gross supply	72,972 48·1 60,559 56	45,306 60·5 24,905 56	20,222 49.9 13,400 60	2,743 743 57	23,951 44·2 9,853 101	6,179 32:5 1,661 66

The area under rabi is small, and no information is given regarding the duty in the rabi season.

The Superintending Engineer remarks that the actual duty was slightly better than shown in the statement above, since it is probable that the greater part of the area exempted from assessment for the season received water, though too late to benefit the crops.

A number of observations were also made to ascertain the duty which is obtained in irrigating rice on the supply measured at the outlet. The general result obtained was, that under ordinary conditions of soil, a supply given at the rate of one cubic foot per second at the outlet to 80 acres is quite sufficient, the supply being continuous.

20 The following are the results of the crops experiments, in the customary form, combined in one Table, for the year 1896-97:—

	ALBE	-		IRR	IGATI	ED LAN	DS.						1	UNIRI	RIGAT	ED LA	NDS.				
DIVISION.	of Experi	-	Ave	Good		of Experi-	Tra	and A	nted, (Good .	Aver					Experi-	Transplanted, 6 and Average		lood		
And the second s	Number ments.	Pac	ldy.	St	raw.	ber o	Pad	dy.	Stra	w.	er of	Pad	ldy.	Str	aw.	of	-	ldy.	1	A REPORT	
Action Action and Acti		Nu	Mds.	Srs.	Mds.	Srs.	Number ments,	Mds.	Srs.	Mds.	Srs.	Number ments.	Mds.	Srs.	Mds.	Srs.	umber ments.	Mds.	1	Str	1
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		Z	Mus.	Srs.	Mds.	Sı	
adi	17	29	95	41	26	- try	1			-	-		14	15	16	17	18	19	20	2	
ni-Byturni pada-Jajepur	29 25	29 25 24	25 10 33	41 31 50	2 21	10	22 20	13 28	23 45	18	17 5 24	23 20 17	27 5 35	37 22 34	35 23	10	iï.	i 9	24	31	
Average per acre	71	26	5	40	/18	11	22	7	25	16	46	20	10	34	7	10	18	19	24	31	

The Superintending Engineer explains:-

"In former returns a distinction has been made between the yield of plots classed as "good" and as "average." I have taken the general average as being more satisfactory. Our principle now is to record the yield of certain plots, and not go about making experiments here and there and recording a classification of very doubtful value: fields classed as "average" by one observer frequently giving a better yield than fields on similar soil classed as "good" by another observer."

The following Table gives a general abstract of the result of all the experiments made in the year under review :-

Divisions.	Number of Experiments.	FROM IE	GE OUT- PER ACRE REIGATED VEIGHED RY.	Number of Experiments.	FROM GATEI	GE OUT- ER ACRE UNIRRI- D LAND ED DRY.	TOR OF	CULTIVA- OUTTURN RRIGATED	FROM UNI	OT THE STREET
	Number of	Rice two-	Straw.	Number of	Rice two- thirds of paddy.	Siraw.	Rice at 21 seers per rupee,	Straw at 9 maunds per rupee.	Rice at 21 seers per rupee.	Straw at 9 maunds per rupee.
1	2	3	4	5	6	7	8	9	10	11
Mahanadi	17 39 23 3	Mds, 19 16 16 16	Mds. 42 29 50 50	17 15 23 1	Mds. 16 13 12 17	Mds. 38 24 34 39	Rs. 36 30 30 30 30	Rs. 5 3 6 6	Rs. 30 25 23 32	Rs.
- 1901 pg	-	17	38	56	14	33	32.4	4.2	26.6	3.7
1892-93 1893-94 1894-95 1895-96		16'60 12'63 11'30 19'59 17'	19°26 24°01 24°56 50°38 37°		12:15 9:68 9:06 17:68 15:	13°70 17°33 21°62 37°91 33°	16.60 29.40 25.29 32.86 26.	2·14 2·67 2·73 5·60	12:15 22:66 20:25 29:82 23:	1.52 1.92 2.40 4.24

The Superintending Engineer writes:-

"The average yield obtained is, for land irrigated from the canal, just the same as in the previous year, and for land not so irrigated, slightly less.

The yield of the canal-irrigated land may be taken to be that of a full average, but not a bumper crop. The lands not irrigated from the canal on which experiments have been

a bumper crop. The lands not irrigated from the canal on which experiments have been made, are so situated, that in many cases they derive indirect benefit from the canal.

In the drought of October-November 1896, they were either irrigated by lifting from natural channels or collections of water which receive the surplus from lands under canal irrigation, or they were benefited by the moisture supplied by percolation. In valuing the yield I have taken the average price obtained locally by the cultivator at time of harvest, which is of course considerably less than the price quoted in the Gazette for sales in towns and markets. Reckoned thus, the average value was in favour of the canal-irrigated lands by and markets. Reckoned thus, the average value was in favour of the canal-irrigated lands by about Rs. 6 per acre.

Several experiments were made to test the loss in weight of paddy by drying after the crop is reaped, and the results showed that the allowance now made, viz., $\frac{1}{12}$ th, is fairly correct, when the crop is not damper than usual at time of reaping. Perhaps $\frac{1}{10}$ th would be a safer

Experiments were also made to test the yield of rice from paddy, and these showed that if the paddy is quite dry, the proportion which has been assumed, viz., 3rd, is fairly correct.

We have commenced to make these experiments more systematically, selecting certain plots to be experimented on each year so as to get the true average yield over a number of seasons, and recording the incidents of the season which may affect the yield." Taking the average of the experiments on both "transplanted" and "broadcast" rice crops on irrigated lands, the results are as follows, compared with those obtained in the Sone Circle:-

TO THE STATE	1		O - 114- of	OUTTURN	PER ACRE.
			Quality of crop.	Paddy maunds.	Straw maunds.
			2	8	4
()rissa			Good and	24.2	33.0
Sone			Good and average.	27.6	54.5

The average value of the rice outturn from the irrigated lands in Orissa was Rs. 32 4 per acre, while from the unirrigated lands it was Rs. 26 6 per acre. 21. The demands, collections, and balances of water-rates are shown

AND COLLEC- below for the last five years :-

7	893-94 894-95	Amount outstanding at com- mencement of year.	Amount falling due during the year.	Total for recovery.	Cash realizations.	Remitted or written off.	Balance at the end of the year
	1	2	3	4	5	6	7
1892-93 1893-94 1894-95 1895-96 1896-97		 Rs. 2,83,704 89,816 63,350 32,140 34,343	Rs. 2,61,023 1,90,824 1,68,449 2,31,727 2,35,517	Rs. 4,94,727 2,80,640 2,31,799 2,63,867 2,69,860	1,93,550 2,24,648	Rs. 52,543 7,748 6,109 4,876 18,486	Rs. 89,816 63,350 32,140 34,343 4,597

The outstanding balance is very satisfactory; it has been reduced from Rs. 34,343 to Rs. 4,597. The Superintending Engineer remarks that the collection has been good, and the adjustment of practically the whole of the arrears is satisfactory.

Of the total, Rs. 18,486, remitted and written off, Rs. 17,504 were classed as remission, and Rs. 982 written off as irrecoverable. Including miscellaneous revenue, the total amount realized by the Deputy Collector was Rs. 2,63,800

as against Rs. 2,43,076 realized in the previous year.

22. The amount of certificate work done in each district is shown in CERTIFICATES.

		Curr	TACK.			BALA	SORE.			Tot	FAL.	_
	1890	j-96.	1896	1-97.	189	5-96.	1890	6-97.	1898	5-96,	189	3-97.
· In the American State of Sta	Number.	Amount,	Number.	Amount.	Number.	Amount.	Number.	Amount.	Number.	Amount.	Number.	An
AND COLUMN TO A CONTROL OF THE COLUMN TO A	2	3	4	5	6 *	7	8	9	10	11	12	
Cases for disposal— 1. Cases pending at the close of the preceding year	125	Rs.	165	Rs. 1,823	2	Rs.	Rs		127	Rs. 1,059	165	
2. Cases instituted during the	2,227	17,679	1,821	12,894	270	2,230	168	1,288	2,497	19,909	2,154	-
Total	2,352	18,721	1,986	14,717	272	2,247	168	1,288	2,024	100000	14	1
Cases disposed of— 1. By being struck off	14 2,173	74 16,824	14 1,970	101 14,593	272	2,247	168	1,288	14 2,445	and the same of the last of th	0 150	-
2. Wholly satisfied Total	2,187	16,898	1,984	14,694	272	2,247	168	1,288	2,459	- Designation of the last of t	0	10
Balance	165	1,823	2	23	🦓				165	1,823	1	1

There has again been a satisfactory reduction in the number of certificates

instituted during the year.

23. The following Table shows the number of objections filed against COMPLAINTS. assessment and disposed of during the year:-

	ORDI	NARY R	EMISSIONS		OTHER (Compla	INTS.	during	Fear.
Division	during r and from year.	Dispos	Disposed of—		during and from year.	1		1 1 7 7 7	nd of
1.03(a)	Received de the year pending previous y	Remission allowed.	Remission refused.	Pending.	Received dithe year pending previous y	Disposed of	Pending.	Total received the year.	Pending at end of year.
1 (5.7)	2	3	4	5	6	7	8	9	10
Revenue Division Mahanadi Brahmini-Byturni Akhoyapada Jajpur	No. 246 155 481 341	No. 164 62 195 175	No. 51 88 286 159	No. 31 5 7	No. 346 70 104 107	No. 285 67 103 104	No. 61 3 1 3	No. 520 216 570 439	No 92 8 1 10
TOTAL	1,223	£ 96	584	43	627	559	68	1,745	111

24. The following is a statement of the amounts remitted and written off REMISSIONS. as irrecoverable during the year, on account of water-rates, &c., compared with the figures of the previous year:-

Revision	n of Assessme	ent.		
(a) Unirrigated crops (b) Damaged ,, (c) Chaukidar's jagir	19		895-96. Rs. 1,409 763 40	1896-97. Rs. 16,101 833 110
	Total		2,212	17,044
(d) Waste-land (e) Land occupied by canals (f) Twice assessed (g) Change of rates (h) Erroneous assessments (i) Loss of crops (t) Error in addition	Remissions.		64 .14 796 462 71 	28 65 319 36 9 3
Irrecoverable demands	Written off.	i	1,257	982
Grand to		:::	4,876	18,486
Net Rem	issions		4,876	18,486

The amount Rs. 16,101, shown above under (a) unirrigated crops, includes

Rs. 15,499, remitted on lands that came under lease late in October, and consequently did not derive benefit from the water.

25. Three appeals to the Collector against orders of the Divisional Canal Appeals. Officer, Akhoyapada-Jajpur Division, were allowed. No appeals were presented from the other divisions. A certain number of cases are also dealt with by the Superintending Engineer, who has the power of revising the proceedings of Divisional Canal Officers. In the year under review the proceedings were called for in five cases. In three of these the assessments were cancelled or modified and in two the Superintending Engineer declined to cancelled or modified, and in two the Superintending Engineer declined to interfere.

26. In the Revenue Division one case was brought for opposing a process Cases UNDER Peon in a certificate case, and in the Akhoyapada-Jajpur Division one case (B. C.) of 1876-

was instituted for attempting to cut a flood bank, and another for cutting a distributary bank. In all cases a conviction was obtained.

27. The cost of the Revenue Establishment for the last five years is shown

below :-

	1892-93.	1893-94.	1894-95.	1895-96.	1896-97.
1	2	3	4	5	6
Establishment under Deputy Collector.	Rs.	Rs.	Rs.	Rs.	Rs.
Permanent establishment, including travelling allowance Temporary establishment Contingencies Headmen's fees Establishment under Executive Engineer.	31,086 16,020 4,098 20,040	43,981 11,580 3,811 3,464	43,679 11,166 3,206 80	42,785 6,161 2,457 172	43,840 14,812 2,634 48
Permanent and temporary establishment, including travelling allowance Water-regulation establishment	5,930 3,274	7,874 3,278	8,568 2,982	8,905 2,809	8,623 2,821
Total	80,448	73,988	69,681	63,239	72,778
Collections of water-rates and miscellaneous revenue by the Canal Revenue Department	3,73,224	2,26,851	2,12,178	2,43,076	2,63,800
Percentage	21.0	32.6	32.8	26.01	27.58

The increase occurs mainly in the temporary establishment employed in the revenue division, and is due to the large areas which had to be assessed during the last half of the year.

28. The following statement shows the receipts from "Navigation" for NAVIGATION. the last five years :-

			CA	DANDA NAL STEM.	C	DRAPARA ANAL ISTEM.	C	I-LEVEL	CA	LEVEL NAL, GE II.	CA	LEVEL NAL, E III.		PUR NAL	To	TAL.
Y	BAR,		Number of miles open.	Tollage receipts.	Number of miles open.	Tollage receipts.	Number of miles open.	Tollage receipts.	Number of miles open.	Tollage receipts.	Number of miles open.	Tollage receipts,	Number of miles open.	Tollage receipts.	Number of miles open.	Tollage receipts.
	1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1891-92 1892-93 1893-94 1894-95 1895-96 1896-97			No. 55% 55% 55% 55% 55%	Rs. 4,357 6,534 14,369 16,024 15,911 28,366	No. 78 78 78 78 78 78	Rs, 98,462 73,500 83,905 65,090 1,04,522 1,04,986	No. 453 33 33 33 33 33	Rs. 12,854 15,278 14,616 10,587 15,881 20,051	No. 125 126 126 125 125 125 125 125	Rs. 3,027 3,165 3,691 2,561 3,890 3,613	No. 19 19 19 19 19 19	Rs. 1,775 1,761 2,026 1,507 1,989 935	No. 61 61 61 61 61 61	Rs. 286 275 508 451 424 311	No. 2042 2042 2042 2042 2042 2042 2042	Rs. 1,20,761 1,00,503 1,19,115 96,220 1,42,617 1,58,262

^{*} Exclusive of the receipts from Transport Service and hire of boats and steamers,

The receipts are considerably greater than in any previous year, and, as the Superintending Engineer remarks, increased navigation receipts have the advantage over those from irrigation that they are attended with little or no extra expense.

The Superintending Engineer writes:-

"The trade in rice which was very active in the previous year, was maintained notwith-tanding the failure of the crop in parts of Orissa. The price, though very high for Orissa,

was cheaper than almost anywhere else in Upper India, and there was a good margin for trade profits. The traffic in other food-grains suffered, however, from the bad harvest. Probably these grains were consumed locally to a larger extent than usual.

The increases under heads, Metals, Building Materials and Coal, are due to the railway

works."

The traffic on the Orissa Canals is detailed below for the last ten years, the transport service being excluded :-

	1887-88.	1888-89.	1889-90.	1890-91.	1891-92,	1892-93.	1893-94,	1894-95.	1895-96,	1896-97.
1	2	3	4	5	6	7	8	9	10	11
Number of riles open No. Toll collections Rs. Rate of toll per mile Number of boats plying cargo and passengers No.	1701 66,628 390°7	177 69,830 394 5	177 78,039 440 9	1,06,961 604·3	1,20,761 589'8	2044 1,00,503 490.8	244 1,19,115 581.7	2043 96,220 469°9	2042 1,42,617 696'5	042 1,58,262 772-9
fonnage of cargo and pas-	12,084	11,475	11,937	12,995	12,946	13,325	14,112	12,198	15,170	18,839
senger boats Tons	175,996	153,674	186,0194	250,243	266,6014	239,583	250,444	197,866	287,180	326,314
including rafts Rs.	50,32,093	47,40,957	48,68,255	85,21,551	95,49,756	84,69,728	71,69,437	51,72,772	77,69,288	1,00,14,777

The total receipts from the Transport Service amounted to Rs. 35,838 against Rs. 25,761 in the previous year, showing an increase of Rs. 10,077. The cost of working the Transport Service, excluding the charge of Rs. 8,900 for tollage on Government vessels, which is practically a receipt, was Rs. 14,514 and the service therefore worked at a profit of Rs. 21,324.

There has again been a very satisfactory increase in the traffic, which is

largely due to the railway works now under construction.

The increased charges are due to the increased traffic.

The charges during the year for repairs to steamers and accommodation bcats amounted to Rs. 5,030 and were included under the general head of Tools and Plant.

30. The following statement shows the Miscellaneous Receipts in detail MISCRILLA-NEOUS for the last five years:-

RECEIPTS.

TRANSPORT

DETAILS.	1892-93.	1893-94.	1894-95.	1895-96.	1896-97
1	2	3	4	5	6
Sale of water Plantations Other canal produce Rent of buildings Rent of lands , fisheries Cost of process Sales of old materials Other items	Rs. 158 1,960 1,123 4,749 9,291 972 7,420 3 856	Rs. 46 1,244 528 4,892 9,247 1,191 4,951 1,023	Rs. 112 2,514 492 5,168 9,248 740 5,593	Rs. 79 2,520 1,290 4,273 11,129 1,740 2,478 96 591	Rs. 39 2,998 2,092 5,139 11,052 1,187 2,041 48 8,744
Total	26,532	23,122	24,821	24,196	33,340

The increase shown in the receipts is thus explained by the Superintending Engineer:

"The chief difference from the return of the previous year is owing to a sum of Rs. 8,312 included in the Brahmini-Byturni Division under head Other Items. This represents the balance at credit of the miscellaneous manufacture account of the Johna Workshops after providing for engine and general charges and for repairs to machinery. It is of course only a profit to Government to the extent to which it was obtained for work done for private parties."

31. The expenditure on maintenance and repairs during the year is shown in the following statement, compared with the expenditure in 1895-96 and in 1894-95.

	7 (fag	1894-95.	1895-96.	1896-97.
1		2	8	4
Extension and improvements Head-works Main and branch canals Distributaries Drainage and protective works Cost of working Transport Service		Rs. 6,547 59,800 1,21,928 27,950 5,480 13,094	Rs. 4,768 57,291 83,277 32,694 8,946 12,851	Rs. 5,859 52,859 1,10,116 31,658 14,734 8,326
Total		2,34,799	1,99,827	2,23,552

There was an increase of Rs. 23,725 in the cost of maintenance and repairs, as compared with 1895-96. The increase is chiefly due to silt clearance and repairs to canal banks. The expenditure on extensions and improvements was mainly incurred in revetting with stone portions of the banks of the Kendrapara and Gobri Canals, to protect them from the wash caused by steamers, and opening a channel at the north end of the Brahmini weir to allow of water Head-works. being taken into natural channels for the irrigation of Dalwa rice.

32. The cost of maintaining each of the weirs is sho	own below:
--	------------

Number of weir	Length.	E	XPENDITU	RE.	RATE I	ER EUNNI	NG POOR.
NUMBER OF WEIL	Liength.	1894-95.	1895-96.	1896-97.	1894-95.	1895-96.	1896-97
1	2	3	4	5	6	7	.8
	Feet.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Naraj	 3,833	2,505	3,284	3,889	0.65	0.86	1.01
Mahanadi	 6,349	16,144	19,371	14,018	2.54	8.05	2.21
Beropa	 1,980	5,980	6,001	7,595	3.00	3.03	3.84
Brahmini	 4,000	1,906	2,059	1,119	0.48	0.51	0 28
Pattia	 783	4,776	4,437	3,200	6.10	£.67	4.09
Byturni	 1,026	2,810	1,834	4,975	2.74	1.80	4.13
Burra	 526	15,306	8,454	5,311	29.10	16.07	10.10
Total of all weirs	 18,497	49,427	45,440	40,107	2 67	2.40	2.11

The expenditure on the weirs was about normal with the exception of the Byturni Weir, on which Rs. 4,975 were spent in carrying out special repairs to the floor which was damaged by the high flood of 1896.

33. The following statement shows the expenditure on each canal for the last three years:—

MAIN AND BRANCH CANALS.

Main and Brane	CH CANA	LS.			EXPENDITU	RE.	R	TE PER MI	LE.
2000				1894-95.	1895-96.	1896-97.	1894-95.	1895-96.	1896-97
1				2	3	4	5	6	7
a\$1			Miles	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Kendrapara Canal			39	42,458	25,856	35,688	1,089	663	915
Pattamundi Canal		***	47	13,460	4,911	7,433	286	104	158
Gobri Canal	•••	•••	15	10,132	5,309	6,791	675	354	453
Kendrapara Extension Canal		/	15	4,970	899	1,883	331	60	122
Gobri Extension Canal			9	7,471	2,590	2,919	830	288	324
Taldanda Canal	**		513	16,591	18,307	18,151	614	354	349
Machgong Canal			32	7,134	6,324	9,092	223	198	284
High-Level Canal, Range I			33	9,283	10,435	15,085	281	316	
Ditto, do. II			121	3,209	1,848	2,455	257		457
Ditto, do. III		1	19	5,792	5,178	4,553	305	148	196
Jajpur Canal			61/2	1,024	1,098	1,411	157	273 169	240 217
Total Main Ca	inals		2793	1,21,524	82,755	1,05,461	477	296	377

The Kendrapara Canal was closed for a longer period than in the previous year, and a large quantity of silt was cleared. The banks were also raised where too low, and injury caused by the wash of steamers was repaired.

The increased expenditure on the High-Level Canal, Range I, is attributed partly to payment for weed-clearing done in the previous year, and partly to heavy outlay in repairing the planking of canal bridges.

Substantial repairs were carried out to the buildings on the Machgong Canal.

34. The maintenance cost of the distributaries, per mile, is shown below. The average rate of Rs. 31 shows a satisfactory decrease, as compared with the average mileage rates of 1895-96 and of 1894-95, which were Rs. 33 and Rs. 36, respectively:—

DISTRIBU-

	19.6	1894-95.		1895-96.					
281	Miles,	Cost.	Per mile,	Miles.	Cost.	Per mile.	Miles.	Cost.	Per mile
1	2	3	4	5	6	7	8	9	10
DISTRIBUTARIES.	No.	Rs.	Rs.	No.	Rs.	Rs.	No.	Rs.	Rs.
Kendrapara Canal System, including Gobri and Gobri Extension Taldanda Canal Machgong Canal High-Level Canal, Range I Ditto, do. II Ditto, do. III	357 714 1224 1314	10,340 . 3,948 4,656 4,013	29 55 38 31	395 991 2102 1311	14,569 2,369 8,202 2,784	51 24 39 21	412 99‡ 210‡ 131‡	10,871 2,485 8,662 2,916	26 25 41 22
Pattamundi Canal Jajpur Canal	491 371	3,281 1,710	66 46	109	1,772 2,999	36 27	106	2,447 4,062 221	49 38
Total	7682	27,948	36	9951	32,695	33	1,0094	31,664	31

The lengths of distributaries in the above are those which have been brought on the revenue account, and consequently differ from the lengths given in paragraph 13 which include all so far advanced as to be fit for use, whether the capital account is still open or not.

35. The total expenditure on Drainage and Protective Works was Rs. 18,876, against Rs. 8,945 in 1895.96. It includes the up keep of 178½ miles of flood embankments, and 279¾ miles of drainage cuts. The greater part of the expenditure was incurred on repairs to flood embankments, and was due mainly to the effects of the high floods of the year.

DRAINAGE AND PROTECTIVE WORKS. DREDGING AND SILE-CLEARING.

36. The following Table shows the cost of silt clearing and dredging during the year 1896-97:—

grant magnetic and its	Snz	r CLEARIN	G.	D	REDGING.	
Name of Canal.	Quantity in cubic feet.	Rate per 1,000 cubic feet.	Cost.	Quantity in cubic feet.	Rate per 1,000 cubic feet.	Cost.
518 - 1 - for 1	2	8	4	5	6	7
Taldanda	. 28,900	4.26	Rs. 123	6,83,149	7.72	Rs. 5,271
Machgong Kendrapara Extension Gobri Extension	41,09,628 1,40,523 4,31,250	2·50 2·00 2·23 2·80	10,274 281 962 478	4,55,334 32,162 35,077 14,128	6·00 6·00 6·50 7 00	2,732 193 228 99
Pattamundi H. L. Canal, Range, I	1,04,495	4·19 5·44	290 571	61,829	5.12	
Jajpur "			•••			
Total, 1896-97	50,54,033	2:57	12,979	12,81,679	6.91	8,858
Total, 1895-96	64,26,172	2.42	15,577	10,48,964	4.71	4,949
Moirota di Talia. Molani dan Africa	Cost of re Silt by dr			Cost of re Silt dre	moving dged.	
Faldanda Kendrapara, Kendrapara Ex- tension, Gobri and Gobri		2.90	1,976	6,83,149	4.82	3,295
Extension Canals	E 00 701	4.90	2,600	5,36,701	1.10	652

The increased expenditure on dredging is due to the long flood in the Mahanadi.

The Superintending Engineer remarks that special attention is being given to measures which should prevent, or at all events lessen, the deposit of silt in the heads of the canals.

PLANTATIONS.

. 37. The following Table shows the state of the plantations for the last two years:—

Division.	1895-96.	1896-97.	Difference.
1	2	8	4
Mahanadi Brahmini-Byturni Acquapada-Jajpur	No. 36,954 73,193 26,183	No. 34,829 72,664 26,287	No. (-)2,125 (-)529 (+)104
Total	1,36,330	1,33,780	()2,550

The decrease in the Mahanadi Division is attributed mainly to the loss of a large number of seedlings.

The receipts from plantation amounted to Rs. 2,998 against Rs. 2,520 in the previous year. The expenditure under this head chargeable to the Capital Account was Rs. 636, and to the Revenue Account, Rs. 181.

MIDNAPORE CANAL.

38. The Capital, Interest, and Revenue Accounts of this canal are given below:-

1.-CAPITAL ACCOUNT.

CAPITAL ACCOUNT.

HEADS OF ACCOUNT.	Outlay during 1896-97.	Outlay to the end of 1896-97.
1	2	8.
The second of th	Rs.	Rs.
Direct charges Less—Receipts on capital account	6,060	83,07,281 31,558
Total direct charges	6,060	82,75,723
Indirect charges	159	1,84,529

The capital outlay was incurred on the construction of a new dock at Mohunpur, which was still in progress at the end of the year.

Owing to the great difficulty experienced with water in the dock excavation, a revised estimate, amounting to Rs. 16,216, was recently sanctioned for completion of the work. The outlay up to the end of March 1897 was Rs. 11,712.

2.—INTEREST ACCOUNT.

Rs. Interest charges to end of 1895-96 77,31,021 Ditto for 1896-97 3,30,908 ... 80,61,929 Total

INTEREST

3.—REVENUE ACCOUNT (Actuals).

REVENUE

	EXPEND	TURE—	and the state of t	RECE	IPTS—
Particulars.	During 1895-96. During 1896-97.		Particulars.	During 1895-96.	During 1896-97
1	2	8	4	5	6
DIRECT CHARGES.	Rs.	Rs.	•	Rs.	Rs.
I.—Works, mainten- ance, and repairs II.—Revenue manage- ment	2,37,163 28,644	1,91,864	Water-rates Navigation Miscellaneous	98,059 1,43,918 22,017	1,00,618 1,54,215 24,924
Total direct charges	2,65,807	2,22,837	Total	2,63,994	2,79,757
INDIRECT CHARGES	10,306	10,472			
Total working expenses Net revenue	2,76,113 (—)12,480	2,33,309 45,358	Less—Refunds of revenue	361	1,090
Total	2,63,633	2,78,667	Total receipts	2,63,633	2,78,667
		As the state of		The Committee of	

Norm.—The details by heads of expenditure for the year 1895-96 and nine preceding years will be found in the table given in paragraph 40 following.

There was an increase in the receipts from all sources and a decrease in

EABNINGS.

expenditure, the net result being a profit of Rs. 45,358, as compared with a deficit of Rs. 12,480 in the previous year:

39. The earnings of the Canal, i.e., the assessed water-rate value of the irrigation done during the year, the assessed tollage plus the actual miscellane ous receipts under Navigation, and the actual receipts under the head Miscellane. laneous, are compared below with the actual outlay:-

EARNINGS.	1895-96.	1896-97.
	Rs.	Rs.
Irrigation Navigation Miscellaneous	1,04,111 1,42,699 22,017	1,05,661 1,51,176 24,924
Total Deduct refunds of revenue	2,68,827 361	2,81,761 1,090
Net earning Outlay	2,68,466 2,76,113	2,80,671 2,33,309
Net earned profit	()7,647	47,362

40. The Revenue Receipts and Working Expenses of the Midnapore Canal for the last ten years are exhibited below :-

PARTICULARS.	1887-88.	1888-89.	1889-90.	1890-91.	1891-92.	1892-93.	1893-94.	1894-95.	1895-96,	1896-97.
. 1	2 .	3	4	.5	6	7	8	9	10	11
RECEIPTS	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Water-rates	90,837	91,016	1,16,424	1,15,438	1,82,981	1,49,057	1,65,630	1,36,882	98,059	1,00,61
Navigation	1,26,574	1,49,480	1,48,164	1,12,754	1,32,572	1,14,141	1,14,994	1,35,492	1,43,918	1,54,21
Miscellaneous	16,967	11,299	13,016	9,004	19,147	16,979	24,319	22,308	22,017	24,92
Total	2,34,378	2,51,795	2,77,604	2,37,196	2,84,700	2,80,177	3,04,943	2,94,682	2,63,994	2,79,75
Less—Refunds of revenue	453	285	181	205	3	176	174	259	361	1,09
Total receipts	2,33,925	2,51,510	2,77,423	2,36,991	2,84,697	2,80,001	3,04,769	2,94,423	2,63,633	2,78,66
WORKING EXPENSES. DIRECT CHARGES,							Legistro 15 Legistro III of			
I.—Works, maintenance, and repairs.					25-4-3				2	
Works (extensions and improvements)						3,736	8,138	11,093	\$ 5,785	9,056
Repairs (including com- pensation)	1,31,181	1,06,139	1,13,507	1,05,038	1,41,262	87,430	1,03,178	1,04,502	1,35,047	1,08,155
Establishment, including direction and accounts	46,467	36,111	29,753	39,562	35,278	34,681	22,881	29,910	44,967	43,826
Cools and plant	31,409	24,335	27,612	23,929	51,761	29,885	38,788	39,599	51,364	30,827
Total	2,09,057	1,66,585	1,70,872	1,68,529	2,28,301	1,55,732	1,72,985	1,65,104	2,37,163	1,91,864
II.—Revenue manage- ment.										
rrigation establishment	22,797	25,927	21,903	22,809	21,273	23,011	20,215	22,861	20,532	22,663
Navigation ditto	7,759	7,550	7,719	7,711	7,750	7,658	7,857	8,080	8,112	8,310
Total	30,556	33,477	29,622	30,520	29,023	30,669	28,072	30,941	28,644	30,973
Total direct charges	2,39,613	2,00,062	2,00,494	1,99,049	2,57,324	1,86,401	2,01,057	2,16,045	2,65,807	2,23,837
ndirect charges	10,783	9,742	8,312	9,811	9,002	9,149	7,133	8,519	10,306	10,472
otal working expenses	2,50,396	2,09,804	2,08,806	2,08,860	2,66,326	1,95,550	2,08,190	2,24,564	2,76,113	2,33,309
	(-) 16,471	41,706	68,617	28,131	18,371	84,451	96,579	69,859	(-)12,480	45,358

RESULTS.

41. In the following statement are tabulated particulars concerning the Lengths of canals and distributaries. There has been no change in the lengths of canals, DISTRIBUTA
BIRS.

	20.3			1	896-97.	300						18	95-96,				
AMR OF CANAL.	Navigable canals,	Canals for irriga-	Distributaries and village channels.	Area protected from floods.	Area under command.	Area provided with distributaries.	Area irrigated.	Percentage of area irrigated to area provided distributaries	Navigable canals.	Canals for irriga-	Distributaries and village channels.	Area protected from floods.	Area under command,	Area provided with distributaries.	Area irrigated.	Percentage of area irrigated to area provided with	REMARKS.
1	2	3	4	5	6	7	8	9	10	11	12 ,	13	14	15	16	17	8
r Midnapore weir Panchkurah r Tidal reaches, ges I and II Midnapore	Miles. 44 12 16	Miles. 44 12 16	Miles, 260°30 35°25 18°00	Acres. 294,400 112,640 30,080	Acres. 180,000	Acres, 100,000 23,000 2,000	Acres. 56,334 7,763 1,086	Acres, 56°38 33°75 54°30	Miles. 44 12 16	Miles. 44 12 16	Miles, 260°30 35°25 18°00	Acres. 294,400 112,640 30,080	Acres.	Acres. 100,000 23,000 2,000	3 7 7 8	Acres. 56.88 31.45 56.50	
al	72	72	313.55	437,120	180,000	125,000	65,183	52.14	72	72	313.55	437,120	180,000	125,000	.,	52.50	

Note.—Of this the length of distributaries is 283.97, and village channels 29.58.

The percentage of area irrigated was almost the same as that of the previous year.

The following statement shows the areas commanded by the dis-OUTLETS. tributaries, and the number of outlets in use:-

Portion of canal,	Total length of channel.	Area commanded.	OF TEN	MBER IPORARY LETS.	Number of Permanent outlets.		
			1895-96.	1896-97.	1895-96.	1896-97.	
1	. 3	3	4	5	6	7	
Under Midnapore weir Do. Panchkurah weir Do. Tidal reaches, Ranges I and II	Miles. 230·72 35·25 18·00	Acres. 100,000 23,000 2,000	1,032	998	43	37	
Total	283-97	125,000	1,206	998	44	37	

There was a decrease in the number of both temporary and permanent

outlets, owing to the better regulation and sizing of the outlets.

43. The average rainfall of the last five years at four stations within the RAINFALL. canal-irrigated area is shown below:-

STATIONS.	1892-93.	1893-94.	1894-95.	1895-96.	1896-97.	AVERAGE O	
		100 m		1000-30,	1890-97.	No. of years.	Average rainfall.
1	2	. 3	4	5	6	7	8
	Inches.	Inches.	Inches.	Inches.	Inches.	58-71	Inches.
Midnapore Panchkurah Luchmapur Mowah	44·44 39·95 47·13 33·60	66:31 65:37 74:18 76:67	43·99 71·62 54·22 53·77	48·39 31·54 39·50 27·12	50°17 61°61 53°92 54°64	28 28 12 12	55·21 55·28 56 45 52·29
Average	41 28	70.63	55.90	36.66	55.08		54.81

Though the rainfall was much greater than that of the preceding year, it was unfavourably distributed. Good rain fell from May to September, and no difficulty was felt by the cultivators either in sowing or transplanting paddy; but there was an entire cessation of rain from the end of September. The crops consequently withered in most places, especially in the unirrigated tracts, and the outturn was very poor.

The rainfall in the kharif season was distributed as follows:—

	Midna- pore.	Panch- kurah.	Luchma- pur.	Mowah.	Average, 1898-97.	Average, 1895-96.	
1	2	3	4	5	6	7. 1	
213	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	
July August September October	11.07 14.20 4.27	17:60 11:30 8:60	9·29 12·79 4·10	14·45 10·56 3·09	13·10 12·21 5·02	8·12 6·86 6·97 2·63	
Total kharif season, 1896-97.	29.54	37:50	26.18	28.10	30 33	24.48	
Do. 1895-96	31.38	20.17	28:22	18.05	24.48		

44. The following table shows the highest levels of the Cossye and Rupnarain rivers, compared with those of last year, and with the highest recorded levels :-

	Locality.	1895-96. *		1896-97.	HIGHEST RECORDED.		
River.	Locality.	Date.	Reading.	Date.	Reading.	Date.	Reading.
	8	3	4	5	6	7	8
Cossy Rupnarain	Midnapore above weir 10110 below weir Panchkurah above weir Ditto below weir Dainan	19th September 1895 Do. do 21st Do. do Do. do 19th Do. do 2uth Do. do	85°50 27°10 26°90 15°20 15°50	Do. do. Do. do. Do. do. 27th July 1896	89°00 74°00 34°00 33°90 15°00 15°00	1868 Do. 10th October 1876 Do. do 26th August 1885 Do. do	92 38 91 55 35 00 34 30 17 30 16 80

The greatest discharge of the Cossye during the year was 70,319 cubic feet per second on the 22nd August 1896, against 14,571 cubic feet per second on the 19th and 20th September 1895. The discharge of the Cossye at Midnapore fell very low during October, when the demand for canal water was greatest, the average discharge for the whole month being only 419 cubic feet per second. The minimum discharge occurred on the 5th March 1897, when only 15 cubic feet per second was registered.

The Superintending Engineer remarks:-

"There were high floods in nearly all the rivers crossed by the Midnapore Canal during the year. The highest reading of the Cossye above weir was 89.00 on the 22nd August as compared with 85.50 on the 19th September 1895, the highest reading on record above the

anicut being 92.30. "The interruption to traffic at Panskurah during the flood season has been the subject of discussion for many years. The question has been carefully considered by Mr. Barlow during the past year, but so far he has not been able to submit any definite proposals which could be likely to remove the obstruction. It has, however, been ascertained beyond doubt that if the river does not rise above 28.00 level, there is little or no interruption to traffic, but with high floods (25 in the lock to high floods (35 is the highest flood level) a backwater is formed extending from the lock to the under sluices in which very heavy silting takes place, and the silt cannot be scoured out until the river falls below 20.00. It is difficult to know what to advise under the circumstances. Meanwhile observations are still being taken with the view of obtaining some solution of the difficulty. The floods caused many breaches in the embankments, but no damage was done to the Head-works. The Selye at Ghattal was also in high flood, the gauge reading, 30.50, on the 23rd August 1896 being the highest recorded."

years, as also the average annual rainfall, are shown below:—

YEAR	Kharif.	Rabi.	Perennial.	Total.	Rainfall
. 1	2	3	4	5	6
Sir Usan	Acres.	Acres.		Acres.	Inches.
1886-87	 69,762	•••	•••	69,762	53.05
1887-88	 64,702	1,162	•••	65,864	22.08
1888-89	 66,408	3,369		69,777	62.13
1889-90	 68,370	440		68,810	44.47
1890-91	 82,002			82,002	55.68
1891-92	 83,905	68		83,973	51.81
1892-93	 91,217			91,217	41.28 >*
18 9 3-94	 79,550	6,213		85,763	70.63
1894-95	 69,941	175		70,116	55.90
1895-96	 65,251			65,251	36.66
1896-97	 65,183			65,183	55.88

Average of four stations throughout the irrigated areas under the Midnapore and Pancheurah weirs.

The total area irrigated during the year was 65,183 acres, as compared with 65,251 acres of the previous year. A much larger area would have been brought under lease, but all leases applied for after the 20th October had to be refused owing to the small discharge available from the Cossye river.

It has been found desirable to restrict the area to be irrigated under long lease to 72,000 acres, and if water is still available, it will be supplied to such areas as are adjacent to the distributaries, in single waerings at the rate of eight annas per acre. To prevent the rush for leases in October it is proposed to fix some date, probably the 15th September, after which no application for a long lease will be received. In last year's Revenue Report the question of the non-renewal of lapsed leases was discussed, and it was intimated that some of the rules under which leases are granted would probably be relaxed. During the year 1896-97 a concession has been granted as regards remeasurement, the penalty rate has been abolished, and all water-rates above Rs. 5 are now collected in two instalments. On the 31st March 1896 long leases for 17,201 acres expired, and during the year applications for renewal of 18,841 acres were received. There is, however, no doubt that the leases would have been renewed again even if the concessions had not been granted, so great was the demand for water.

46. The following table gives particulars about the areas under lease:--

LHASES.

Anna talling a series and over a last product a	de de const	KHARIF	· Daniel Company	Sugarcane and other perennial irrigation.	7-1 3495-1387-1	a comment	1
PARTICULARS.	Long. leases.	Annual leases.	Surrepti- tious irrigation,		Rabi,	Total.	REMARKS
1	2	3	4	5	6	7	. 8
Leases in force in 1895-96 Do. which expired at the end of 1895-96 Do. in force at the beginning of 1896-97 Do. executed during 1896-97 Do. in force during the year 1896-97 Do. which expired at the end of 1896-97 Do. in force at the beginning of 1897-98	Acres. 64,791 17,201 47,589 20,044 67,633 33,225 34,408	Acres, 435 435 435 	Acres. 25 25 25 990 990 990	Acres.	Acres.	Acres. 65,251 17,661 47,589 21,034 68,623 34,215 34,408	2154 3154 3154 3154 3154 3154 3154

DUTY OF

47. The duty obtained in the kharif season, calculated from the gross discharge, is given below for the last three years:—

		Under Midnapore weir.	Under Panch- kurah weir.		
		1 s s s s		2	8
		(Acres		30,209	2,731
1894-95	Kharif	{ Acres Duty on gross supply		204	170
				56,887	7,234
1895-96 Kharif	\cdots $\left\{ egin{array}{ll} \Delta { m cres} & \cdots \\ { m Duty \ on \ gross \ supply} \end{array} \right.$		105	64	
				56,334	7,763
1896-97	Kharif	\dots $\left\{ \begin{array}{ll} \textbf{Acres} & \dots \\ \textbf{Duty on gross supply} \end{array} \right.$		232	228

The Superintending Engineer is of opinion that this system of calculating the average duty of water is of no practical value. Unfortunately there is no accurate information available of the area irrigated between September and November.

CROP EXPERI-

48. The usual crop experiments were made during the year. The total number of these experiments was 70, of which only 8 were made on unirrigated lands. The average outturn of this irrigated crop was about 20 maunds per acre of grain and 42 maunds of straw weighed dry. In one experiment made on No. 1 Distributary, where the water-supply was good and taken early, the outturn of paddy was 34½ maunds, and straw 95½ maunds.

In addition to the above 14 experiments were made by the Special Deputy Collector; they gave an average outturn of 20 maunds of paddy, and 36 maunds of straw, weighed dry, per acre, against 14 and 28 maunds respectively of the unirrigated area.

Statement showing the average outturn of each crop experimented by each officer of the Midnapore Canal Revenue Division during the year 1896-97.

NAME OF OFFICER.	Name of crop.		Num- ber of experi-	WET.			AVERAGE WEIGHT PER ACRE IF WEIGHED DRY, OR REDUCED, IF WEIGHED WET.				RHMARKS.			
La pareira			ments.	Grain.		Straw.		Grain.		Straw.		AND		
1			3									8		
Babu Ram Sadan Bhattacharjee,	Rice 1	1	Mds.	srs. 16	Mds.	srs. 20	Mds. 17	grs. 31	Mds. 29	grs.	Experiment made on it gated lands.			
Special Deputy Collector. Ditto	Do,		1	14	28	27	16	3	19	18	11	Experiment made on land not irrigated by caus water.		
Babu Mohananda Ganguli, Zilla-	Do.	***	2	24	15	49	20	2	14	33	0	Experiment made on land irrigated by canal water		
dar Panskura. Ditto	Do.		2	17	28	46	18	16	9	30	39	not irrigated by can		
Babu Shidhessur Mazumdar, Zilla-	Do.	•••	2					19	20	42	0	Experiment made on land irrigated by canal water.		
dar, Balichak. Ditto	Do.	•••	2					15	8	37	0	not irrigated by can		
Babu Mohendra Nath Mal, Zilla- dar ir. charge, Antra subdivision.	Do.		4	26	18	65	1	24	10	43	14	Experiment made on land irrigated by canal water		

49. The balances, assessments, and recoveries of water-rates on the Midnapore Canal during the last five years are shown in the following statement:—

ASSESSMENTA COLLECTIONS AND BALAN-CRS.

YEAR.			Amount outstanding at com- mencement of year.	Amount falling due during the year.	Total for recovery.	Cash realization.	Remitted or written off,	Balance at the end of the year.	
	1		2	3	4	5	6	7	
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
1892-93			58,972	1,39,990	1,98,962	1,49,057	1,338	48,567	
1893-94	Ε		48,567	1,30,111	1,78,678	1,65,630	6,021	7,027	
1894-95			7,027	1,35,016	1,42,043	1,36,882	612	4,549	
1895-96			4,549	1,04,111	1,08,660	98,059	477	10,124	
1896-97			10,124	1,05,660	1,15,784	1,00,618	8,727	11,439	

The cause of the large balance at the end of the year is thus explained by the Superintending Engineer:—

"The balance, a part of which is unrealizable, includes Rs. 2,562-9-6 on account of illicit irrigation which could not be collected, as the cases were disposed of in February and March. The tardiness of the villages in applying for leases put obstacles in the way of prompt collection of water-rates, as the assessment of partly irrigated villages took up a great deal of time, owing to the unirrigated areas having to be measured up and excluded from assessment. Again, no less than 209 petitions were filed, praying for remission, on the ground of non-supply of water, and the Executive Engineer recommended remission in 63 cases. The investigation of these complaints delayed the work of assessment, and also that of collection. The demands in a few villages could not likewise be collected, as the villagers objected to sign the kabuliyats, until the cause of increased areas, due to re-measurement, was explained to them, and this could not be done until the end of March. The payment by two instalments in the case of demand above Rs. 5 also told upon collections to a certain extent.

But for these unfavourable incidents the collections of the year would have been more satisfactory. The number of collecting agencies was 14 only, who realized a sum of Rs. 1,00,565 from 38,149 rate-payers residing in 934 villages, in three months' time. On the whole, therefore, the percentage of collection must be considered creditable to the Special Deputy Collector and his staff.

Out of Rs. 1,00,618 collected, Rs. 3,731 only were realized by means of the certificate procedure."

50. The following statement shows the arrears of water-rates of each former year which were outstanding at the beginning of 1896-97, as well as the current dues, and the extent to which they have been worked off:—

ARREARS.

	al of the		87		Balance				
YEAR.	Amount previously due and unrealised.	Amount falling due within the year.	Total amount due to end of the year,	Cash recoveries.	Remissions authorised.	Written off as being irrecover- able.	Total.	unrealised at end of the month of March 1897.	
1.	2 2	3 3	in the	5	6	71	8.	9	
1892-93	Rs. A. P.	Rs. A. P. 277 10 0	Rs. A. P. 273 6 6	Rs. A. P. 156 4 9	Rs. A. P. 23 12 9	Rs. A. P. 29 15 6	Rs. A. P. 210 1 0	Rs. A. P. 63 5 6	
1893-94	887 8 0	22 1 9	398 4 6	175 7 3	88 3 9	80 4 9	348 15 9	54 4 9	
1894-95	601 3 9	128 3 9	821 0 9	633 14 0	55 9 6	63 12 9	753 4 3	67 12 6	
1895-96	9,045 9 9	4,667 4 9	13,726 14 0	9,872 4 9	3,129 1 9	2 19 9	13,004 3 3	722 10 9	
1896-97	+13 15, 6	1,00,565 4 0	1,00,565 4 0	89,780 1 3	253 15 0	200	90,036 0 3	10,531 3 9	
Total	10,124 5 6	1,05,060 8 3	1,15,784 13 9	1,00,618 0 0	3,550 10 9	176 13 9	1,04,345 8 6	11,439 5 3	

REMISSIONS.

51. The sum of Rs. 3,727-8-6 was remitted during the year 1896-97 against Rs. 477-2-3 in the previous year.

The following are the details:-

					Rs.	A.	P.
Remissions gra- Engineer un	der Rule 28 o	f the Midn	apore Canal	rules	193	1	0
Remissions gra Rule 24, cla	use I		1.50 THE PARTY		3,293	15	0
Remissions gra Rule 24, clar Remissions gra	ise II			•••	240	8	6
Rule 25	*	•		•••			
			Total		3,727	8	6

The remissions are much larger than those of 1895-96. This is due to the remission of Rs. 2,854, with the permission of the Superintending Engineer, on account of the extra rate of 12 annas imposed during 1895-96 on several villages, and also to the remission of Rs. 240-8-6 on account of deficient supply of water, at the recommendation of the Executive Engineer.

Rupees 711-15-9 were refunded during the year, of which Rs. 329-3-6

represent collections at the extra rate of 12 annas made in 1895-96.

52. The extent to which recoveries by means of certificates were made during the year is shown in the following statement:-

Solitare mention of the state of table and the		MIDNA	PORE.	
Particulars.	189	5-96.	189	6-97.
remarks to the anti-remark to the state of the product of the state of	No.	Amount.	No.	Amount
	2	3	4	5
Cases for disposal.		Rs.		Rs.
1. Cases pending at the close of the preceding year 2. Cases instituted during the year	17 286	229 2,904	58 565	664 3,482
Total	303	3,133	623	4,146
Cases disposed of.				
1. By being struck off, owing to the demand having	2	12	29	215
been remitted. 2. By being wholly satisfied	243	2,457	563	3,731
Total	245	2,469	592	3,946
Balance outstanding at the close of the year	- 58	664	31	200

The number of certificate cases instituted during the year was almost double that of the previous year. The increase is attributed mainly to the efforts made by the Special Deputy Collector to collect arrear demands. Some certificates were also issued for the realization of the current demand in villages which would not easily pay up. The number of outstanding cases at the end of the year was 31 against 58 of the year before.

There were no cases of arrest of judgment-debtors. In no case was it necessary to sell the judgment-debtor's immovable property, and in only one

instance was resistance offered to the process of the Court.

53. The number of complaints filed during the year, and the nature of COMPLAINTS. their disposal, is shown in the following statement:-

			RECEIVED.			DISPOSED OF.			BALANCE PENDING AT END OF THE YEAR.		
YEAR.	Class of complaints.	Balar pend from r viou year	re- during the year.	Total.	Allowed.	Refused.	Total.	Received during previous years.	Received during the year.	Total,	
1	2	3	4	5	6	7	-8	9	10	11	
895-96 {	Ordinary remission Other complaints	11	233 108	244 115	52 53	95 53	147 106			97	
on the state of th	Total	18	. 341	359	105	148	253			106	
896-97 {		97	538 49	635 58	299 44	255 13	554 57			81	
	Total	106	587	693	343	268	611			82	

54. The cost of the revenue establishment during the last five years is shown below :-

Establishment under the Collector.	1892-93.	1893-94.	1894-95.	1895-96.	1896-97
1	2	3	4	5	6
Permanent establishment, including travelling allowances.	Rs. 20,263	Rs. 16,620	Rs. 18,436	Rs. 17,530	Rs. 18,650
Temporary establishment Contingencies Headman's fees	1,014 375	346 1,814 325	1,289 873 813	332 677 656	1,566 1,111
Total	22,093	19,105	21,411	19,195	21,327

In addition to the above, the following sums were paid by the Executive Engineer for water regulation:

		I	Permanent.	Temporary.
1000 00		0.00	Rs.	Rs.
1892-93		***	419	500
1893-94			822	288
1894-95	•••	•••	1,187	263
1895-96	•••		1,208	129
1896-97		AND THE	1,095	241

55. The navigation receipts were the highest on record during the last NAVIGATION. ten years; they amounted to Rs. 1,54,215, as compared with Rs. 1,43,918 in 1895-96. There was an increase under all heads, in the number and tonnage of boats, and in the number of passengers.

The Superintending Engineer writes:-

"The principal increase was in down traffic. As to exports the principal excess over the previous year was in paddy and rice; under imports the increase was confined to iron, coal and coke, which were carried by the canals for use in the Bengal-Nagpur Railway extension now under construction. The rice crop, as a rule, was a good one, except in the unirrigated tracts and in some lands in the south of the district: hence the large exports are most remarkable, as showing that the high prices induced the villagers to take out and sell part of their reserve stock. The paddy and rice for export mostly came from the canal-irrigated tracts and from the south of the district below Narainghur. The slight variations under other heads call for no remarks. It should be noted here that the traffic in the tidal reaches during January and February was small. The Calentia Steam Navigation Company's reaches during January and February was small. The Calcutta Steam Navigation Company's ordinary steamer service continued to ply round by the river till April, when the winds and high tides began to get strong and made navigation somewhat slow and dangerous. As reported last year, the water in these reaches became very low during these months, owing to the low tides and the large deposit of silt in them."

TRAFFIC.

Particulars regarding the traffic on the canal for the last ten years are tabulated below:-

DESCRIPTION.	1887-88.	1888-89.	1889-90.	1890-91.	1891-92.	1892-93.	1893-94.	1894-95.	1895-96,	1896-97.
1 part	2	3	4	5	6	7	. 8:	9,	_ 10	11
Miles open No. Foll collections Rs. Rate of toll per mile	72 1,08,460 2,046	72 1,25,332 2,365	72 1,16,409 2,196	72 89,556 1,689	79 (a)1,32,572 1,841		72 (a)1,14,994 1,597	72 (a)1,35,492 1,882	72 (a)1,43,918 1,999	
Number of boats, in- cluding empty boats No. Fonnage of boats Tons. Passengers carried No.	49,628 409,866 160,567	54,214 470,806 167,259	52,060 462,418 176,226	45,054 417,803 187,700	42,328 411,892 163,836	40,438 410,003 (b)205,804	36,910 369,691 (b) 203,653	420,996	43,633 451,293 (b)227,905	507,95
estimated value of including rafts Rs.	1,18,44,844	1,31,70,269	1,45,12,442	1,48,33,391	1,26,65,724	1,26,04,204	1,22,50,436	1,24,69,708	1,27,43,136	1,33,78,23

56. The miscellaneous receipts for the last five years were as follows:-

Det	AILS.	1892-93.	1893-94.	1894-95.	1895-96.	1896-9.
	20 7025 000 00	2	3	- 4	5	6
0		Rs.	Rs.	Rs.	Rs.	Rs.
Sale of water Plantations Other canal pro- Rent of buildin Miscellaneous	duce gs (Rent of lands, , of fisheries Cost of process Other items	10 34 1 740 8,586 1,162 1,280 5,166	4 44 2 712 12,468 1,479 2,173 7,487	55 1 890 12,049 1,507 722 7,084	18 88 973 10,390 1,440 333 8,775	119 28 28 1,156 14,958 1,664 672 6,304
	Total	16,979	24,319	22,308	22,017	24,924

The actual cost of maintenance and repairs during the last five years is shown below:-

12,693
65,331 25,222
1,898 3,011
1,08,155

The outlay on repairs to the main canal, including that on head works, on working steamers, and on drainage works, but excluding distributaries, was Rs. 82,933, against Rs. 1,10,446 in 1895-96.

The expenditure was considerably less than that of the previous year.

58. The expenditure on head works was small, being confined to petty

works necessary to keep the weirs, &c., in proper repair.

The expenditure on the Midnapore and Panchkurah head works during the year was Rs. 7,997 and Rs. 4,696, respectively, against Rs. 20,499 and Rs. 6,275 in the previous year. On weirs the expenditure was at the rate of Re. 0.52 per foot run of Midnanous and British Re. 20,499 and Re. 0.52 per foot run of Midnanous and British Re. 20,499 and Re. 0.52 per foot run of Midnanous and British Re. 20,499 and Re. Re. 0.52 per foot run at Midnapore, and Re. 1.14 at Panchkurali, as compared with Rs. 4.25 and Re. 1.25 with Rs. 4.25 and Re. 1.25, respectively, last year.

⁽a) Inclusive of tolls (Bs. 41,180, Rs. 29,066, Rs. 30,647, Rs. 44,434, Rs. 38,576 and Rs. 40,425) paid by the Calcutta Steam Navigation Company.

(b) Inclusive of passengers (92,257, 100,916, 100,059, 112,555, and 113,615) carried by the Calcutta Steam Navigation Company's steamers.

The mileage rate for repairs to the main canal was Rs. 1,728, as MAIN CANAL compared with Rs. 2,301 in the previous year.

The cost of working Government steamers and bholio was Rs. 3,011 against Rs. 3,120 in 1895-96. This expenditure was chiefly confined to work-

ing the steam-launch Kabaduck.

The expenditure on Tools and Plant was Rs. 30,827, as compared with Rs. 51,364 in the previous year. The outlay was mainly incurred on thorough

repairs to dredging plant at a cost of Rs. 29,537.

60. On distributaries, the expenditure on repairs was Rs. 25,222, or Rs. 89.12 per mile, against Rs. 24,601, or Rs. 87 per mile, in the previous year. The expenditure of the year was very high, and was incurred in thorough repairs to masonry regulators, head sluices, bridges, and in bringing the worst distributaries up to proper section.

The cost of maintenance per mile of both the main canal and the distribu-

taries is given below for each of the last ten years:-

	MAIN	Canal and Works, &c.	HEAD	DISTRIBUTARIES.			
YEAR.	Length of canal open.	Total cost of work.	Rate per mile.	Length of distributary channels.	Total cost of work.	Rate per mile.	
1	2	3	4	5	6	7	
	Miles.	Rs.	Rs.	Miles.	Rs.	Rs.	
1887-88	48	1,10,494	2,301	283	20,687	74	
1888-89	48	83,675	1,743	283	22,464	79	
1889-90	48	93,738	1,953	283	19,769	69	
1890-91	48	93,187	1,941	283	11,851	41	
891-92	48	1,30,897	2,727	283	10,365	36	
1892-93	48	74,818	1,558	283	12,612	44	
1893-94	48	82,246	1,713	283	20,931	74	
1894-95	48	86,001	1,792	283	18,501	65	
1895.96	48	1,10,446	2,301	283	24,601	87	
1896-97	48	82,933	1,728	283	25,222	89.12	

The following statement shows the quantity of work done by each SILT CLEARING. dredger and excavator, and the amount expended on their working during the year :-

		Opentity	edged. litting. hop has S. cric	Cos	ST OF REMOVING.		Lifting	-	1.71
	NAME OF DREDGER.	of earth dredged.		Steam- hopper barge S. L. cricket.	Ordinary hopper barge.	Total.	rate per 1,000 cabic feet.	Removing rate per 1,000 cubic feet.	Total rate per 1,000 cubic feet.
	1	2	3	4	5	6	7	8	9
		C. ft.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Dredge	Ajax Hector	1,282,675 2,257,087 1,580,025	4,489 6,976 9,021	1,829 3,383	:	6,318 10,359	3:50 3:09	1°42 1°50	4°92 4°59
;	Combination Cadmas	1,580,025 168,363 391,940	1,849 2,121	3,217	=	12,238 1,849 2,121	5.71 10.98 5.41	2.03	7.74 10.98 5.41
	Total for 1896-97	5,680,090	24,456	8,429		32,885	4.30	1.48	5.78
	Total for 1895-96	4,742,703	19,191	6,092		25,283	4:04	1'29	5.33

The quantity of silt excavated during the year from the main canal and entrances was considerably more than in the previous year, viz., 5,680,090 cubic feet, against 4,742,703 cubic feet. The cost of lifting and removing was Rs. 32,885 as compared with Rs. 25,283 of the year before. The rate increased from 5.33 to 5.78 per 1,000 cubic feet. The Kantapukur entrance gave great trouble during the year, requiring the dredging of a channel 900 feet long ir the bed of the river.

62. The expenditure on plantations during the year was Rs. 287, against Rs. 130 of the previous year. The following table compares the condition of the plantations in 1896-97 with 1895-96:—

Увак.	Trees upwards of 12 feet high.	Saplings between 4 and 12 feet.	Seedlings below 4 feet.	Total.	
1	2	3	4		
1895-96 1896-97	No. 15,098 15,813	No. 4,545 4,545	No. 1,967 3,486	No. 21,610 23,844	

GENERAL

63. The result of the year's operations is satisfactory. The season was one of good rainfall at the beginning, but owing to the cessation of the rains in September, the demand for canal water during the remainder of the season was

very great.

The receipts from all sources show an increase, and the working expenses

HIJILI TIDAL CANAL.

The Capital, Interest and Revenue accounts of this canal are given below:-

1.-CAPITAL ACCOUNT.

HEADS OF AC	Outlay during 1896-97.	Outlay to end of 1896-97.			
1				2	3
I.—Works II. —Establishment III.—Tools and plant IV.—Suspense accounts Loss by exchange	RGES.	<u>:</u>	::	Rs. 25,731 5,631 5,000	Rs. 18,04,149 5,83,411 1,42,004 22,790
V.—Less—Receipts on capital ac		otal		36,362	25,52,354 925
Net total	direct charg	es		36,362	25,51,429
Indirect ch. Capitalization of abatement of land Leave and pension allowances			::	₇₈₈	11,210 52,303
Total is	ndirect char	ges		788	63,513

The only works charged to Capital account were the completion of the new supply sluice and channel at Terapakia, for feeding the second range of the canal from the Haldi river, and the remodelling of the Kalinagar Lock.

2.—INTEREST ACCOUNT.

Interest charges to end of 1895-96 19,36,124 ... 1,01,330

20,37,454

3.—REVENUE ACCOUNT (Actuals).

	EXPEND	ITURE -		Receipts-		
Particulars.	During 1895-96.	During 1896-97.	PARTICULARS.	During 1895-96.	During 1896-97.	
1	2	3	4	5	6	
DIRECT CHARGES.	Rs.	Rs.	Water-rates	Rs.	Rs	
I Works, maintenance and repairs II Revenue manage-	54,860	34,502	Navigation	60,677	89,511	
ment	4,020	3,988	Miscellaneous	1,299	1,435	
Total Direct charges	58,880	38,490	Total	61,976	90,946	
Indirect Charges	2,518	1,701	Less-Refunds of			
Total working expenses	61,398	40,191	revenue			
Net revenue	578	50,755	Net total receipts	61,976	90,946	
Total	61,976	90,946				

Note.—The details by heads of expenditure for the year 1896-97 and nine preceding years will be found in the table given in paragraph 65 following.

65. The following statement shows the receipts on Revenue account, and FINANCIAN RESULTS. working expenses, for the last ten years :-

PARTICULARS.	1887-88.	1888-89.	1889-90.	1890-91.	1891-92.	1892-93.	1893-94.	1894-95.	1895-96.	1896-97
1	2	3	4	5	6	7	8	9	10	11
RECEIPTS.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Navigation Miscellaneous	40,406 1,452	53,921 1,249	40,338 1,614		36,348 567	52,180 1,282	58,209 987	57,089 1,436	60,677 1,299	89,511 1,435
Total Less -Refunds of revenue	41,858	55,170 73	41,952	28,044	36,915	53,462 72	59,196	58,525	61,976	90,946
Total Receipts	41,858	55,097	41,952	28,044	36,915	53,390	59,196	58,525	61,976	90,946
WORKING EXPENSES. DIRECT CHARGES. I.—Works, maintenance, and repairs. Works	47,928 11,855	1,718 50,920 16,572	16,713 4,157	27,012 8,636	32,588	16,447	1,925 32,077	26,148	16,712 20,186	22,343
Tools and plant	2,105	2,868	1,806	13,487	11,433 1,693	5,562 5,363	12,614 3,901	9,770 5,417	13,966 3,996	8,159 4,000
Total	61,888	72,078	22,676	49,135	45,714	27,372	50,517	41,339	54,860	34,502
II.—Revenue management. Navigation establishment	3,007	3,195	3,039	2,883	2,955	4,332	3,700	4,140	4,020	3,998
Total Direct Charges	64,895	75,273	25,715	51,968	48,669	31,704	54,217	45,479	58,880	38,490
INDIRECT CHARGES	2,081	2,767	1,007	1,606	2,014	1,385	2,284	1,947	2,518	1,701
Total working expenses	66,976	78,040	26,722	53,574	50,683	83,089	56,501	47,426	61,398	40,191
Net revenue	(-)25,118	()22,943	15,230	(-)25,530	(-)13,768	20,301	2,695	11,099	578	50,755

The cost of maintenance was Rs. 40,191 as compared with Rs. 61,398 in 1895-96. The reduction in expenditure is due to the fact that no special repairs were done to the canal. The receipts were the highest recorded since the opening of the canal; the expenditure was much below that of the previous year, and the net revenue was far greater than anything hitherto obtained.

RAINFALL,

66. The rainfall register during the year at Contai station was 61.38 inches as compared with 43.26 inches in 1895-96, and an average of 61.52 inches for the previous five years. The rainfall was very good at the beginning of the season, and though it was scanty in September, this suited the rice in the low lands of Hijili where the crops were excellent.

FLOODS.

67. There were no high floods in 1896-97 in any of the rivers crossed by the canal, and no breaches occurred. The following statement shows the highest gauge readings of the rivers Hooghly, Haldi, and Russulpur:—

NAME OF Taxables			1895-96		1896-97.		HIGHEST RECORD.		Province	
RIVER. LOCALITY.	Date.	Reading.	Date.	Reading.	Date.	Reading.	REMARKS.			
1	Ì	2		3	4	5	6	7	8	9
Hooghly		Gewankhali	•••	19th Sept. 1895	116:30	12th August 1896	115.30	Cyclonic storm of 1874.	123.23	
Haldi		Terapakia		Do. do.	117*40	10th do.	116-30	* Not known	120°23	* Recorded or plan withou date (Mr Vertannes).
Russulpur	. 1	Kalinagar		20th do.	114.70	12th do.	114.20	26th August 1888	118.20	· ca rambody.

NAVIGATION.

68. The traffic stastitics for the last ten years are given below :-

PARTICULARS.	1887-88.	1888-89.	1889-90.	1890-91.	1891-92.	1892-93.	1893-94.	1894-95,	1895-96,	1896-87
1	2	3	4	5	6	7	8	9	10	n
Miles open No. Toll collections Rs. Rate of toll per mile Number of boats, in-	(a)40,406 1,338	29 (a)53,910 1,700	29 (a)40,341 1,200	(a)27,145 821	29 (a)36,348 1,128	29 (a) 52,180 1,607	(a) 58,209	(a) 57,089 1,968	29 (a)60,677 2,092	(a)89,51 3,08
cluding empty boats No. Tonnage of boats Tons Passengers carried No. Estimated value of cargo, including	13,503 124,903 11,951	16,481 165,635 34,032	13,785 124,605 (b)30,222	10,215 91,114 (b)22,420	15,332 133,575 (b)27,320	16,084 168,239 (b)42,488	14,716 1,78,640 60,081	15,133 193,345 (b)34,951	15,692 208,574 (b)27,581	22,97 290,595 (b) 28,07
rafts Rs.	26,13,351	33,01,123	27,29,720	20,78,972	34,97,725	52,56,550	42,37,488	44,85,280	48,84,232	69,55,19

(a) Inclusive of tolls, Rs. 1,603, Rs. 1,502, Rs. 4,590, Rs. 5,523, Rs. 3,346, Rs. 3,634, Rs. 5,568, Rs. 7,586, Rs. 5,390, Rs. 4,673 and Rs. 6,602 paid by the Calcutta Steam Navigation Company.
 (b) Inclusive of passengers, 23,243, 17,554, 21,209, 31,792, 41,286, 16,484, 22,613 and 23,356 carried by the Company's steamers.

The tollage receipts amounted to Rs. 89,511, and show an increase of Rs. 28,834 compared with the figures of 1895-96.

The Superintending Engineer writes:-

"The gross tonnage of boats was 290,595, against 208,574 of the previous year, and the number of boats increased from 15,692 to 22,979. Out of the earnings of the year a sum of Rs. 783-11-9 was remitted to the Calcutta Steam Navigation Company, being the difference between the local and through rate of tolls on such days as they maintained a separate steamer in the Hijili and Orissa Coast Canals, the passengers being transhipped at Kalinagar. This interruption of steamer service caused a great falling off in the number of passengers, as the figures for 1896-97 are for the whole year, whereas those for 1895-96 are for thirty-three weeks only

The only important change in the traffic was the great increase in the export of rice, viz., 80,520 tons, against 50,976 tons of the previous year. This was entirely owing to the high price of rice which prevailed in the Calcutta market on account of the famine in Bihar. The export of timber also largely increased, and this was due to the demand for wood for

building boats for rice transport.

On comparing the receipts at different toll stations, a very large increase is noted at Kalinagar, viz., Rs. 11,551 for down traffic, compared with Rs. 6,788 of the previous year. Some 50,000 maunds of rice and paddy were transhipped here monthly during April, May and June until the lock was re-opened. On the first day that the lock was opened, 200 empty boats passed through it to go and procure rice from the various hats on the Rassulpur river.

The Executive Engineer reports that a great deal of rice comes down the Sadar Khal, and that there are also several large hats lower down on the Rassulpur river, from which rice might be exported by the Hijili Tidal Canal in the cold weather months, if the tollage rates were reduced. The question of reduced tollage on the Hijili Tidal Canal, in order to tap the traffic on the Rassulpur and Huldi rivers during the cold weather months, is an important one, and a separate reference will be made to Government on the subject. The crossing of the Huldi river has kept its old course, but the entrance channel at Etamagra Lock is deteriorating, and parts of the banks are being cut back. It is satisfactory to note that the Rassulpur river continued to improve during the year. Dredging was started in the Sadar Khal, but little work was done, owing to the breakdown of the dredger."

69. The miscellaneous receipts for the last five years are shown below: -- MISCREIA-

RECEIP16.

1892-93.	1893-94.	1894-95.	1895-96.	1896-97.
Rs.	Rs.	Rs.	Rs.	Rs.
1,282	987	1,436	1,299	1,435
	The second secon		-1-00	1,400

70. The quantity of silt dredged from Ranges I and II of the canal, and DREDGERG. the cost of lifting and removal are shown in the statement below: -

NAME OF DREDGER.	Cubic feet dredged. Cost of lifting per 1,000 cubic feet.		Cost of removing per 1,000 cubic feet.	Total cost per 1,000 cubic feet.			
1	2	3	4	5	6		
New Bruce No. II Marchant No J Ditto No. II(Jack) Ditto No. II do. Ditto No. III do. Ditto No. III Ditto No. III Ditto No. III	7,000 12,700* 14,000* 195,000* 91,000 55,500 79,009	14.28	Rs. 5 8.82 10.00 4.57 5.00 4.50 4.49	Rs. 69 22:36 24:28 9:58 9:50 8:54 10:64	Range I, Etamagra. Do. II, Terapakia. Do. II, Do. Do. II, Kalinagar. Do, II, Etamagra lock. Do. II, Kalinagar. Do. II, Kalinagar.		

^{*} These are for Original Works in cutting away Terapakia Supply Channel junction bunds, and in removing bunds and silt at Kalinagar.

71. At Terapakia, silt was cleared by hand from 12th mile 28 chains to SHIT CLEAR-14th mile 38 chains of the canal, 3,210,991 c. ft. being removed at a cost of Rs. 12,373. Half a lakh of silt was removed from the inner channel of the lock at Kalinagar at a cost of Rs. 252, and another 20,000 c. ft. was also cleared from outside the lock for Rs. 66.

The following table shows the state of the plantations for the last two Plantations. 72. years :-

YBAR.	Trees up- wards of 12 feet in height	Saplings from 4 to 12 feet in height.	Seedlings under 4 feet.	Total.
1	2	3	4	5
1895-96 1896-97	No. 6,410 6,148	No. 5,034 5,355	No. 320 226	No. 11,764 11,729

73. The result of the year's operation was very satisfactory. Notwithstanding the closure of the Kalinagar lock, which lasted over three and half months, the net revenue of the year has far exceeded that of the last year. It is hoped that with the through traffic now re-established, the result will be far more satisfactory in future years.

CAPITAL

SONE CANALS.

74. The Capital, Interest, and Revenue Accounts of these canals are given below:-

T	CAT	DITA	T	ACCC	TINT.

HEADS OF ACCOUNT.		Outlay during 1896-97.	Outlay to end of 1896-97.
• • • • • • • • • • • • • • • • • • •		2	3
DIRECT CHARGES. I.—Works II.—Establishment III.—Tools and plant IV.—Suspense accounts Loss by exchange		Rs. 8,797 1,780 101 (—)261	Rs. 1,87,73,420 52,08,788 22,48,951 1,11,722 52,240
V.—Less—Beceipts on Capital account		10,417 39,7(5	2,63,95,121 4,14,150
Net total Direct charges		()29,288	2,59,80,971
INDIRECT CHARGES. Capitalization of abatement of land revenue Leave and pension allowances	249	37,911 8,78,486	
Total Indirect charges		249	9,16,397

The capital account of the canals is closed. With the exception of an expenditure of Rs. 8,797 on account of permanent outlets, a syphon and sub-distributary charged to open capital account, such original works as were constructed were executed on revenue account and charged to Extensions and Improvements. II.-INTEREST ACCOUNT.

INTERES T

			Rs.
Interest charges to end of 1895-96	•••	•••	2,07,32,376
Ditto for 1896-97	***	•••	10,39,825
	Total	igilya Y	2,17,72,201

III.—REVENUE ACCOUNT (ACTUALS.)

	EXPEND	TURE"—		RECEIPIS-		
PARTICULARS.	During 1895-96.	During 1896-97.	Particulars.	During 1895-96	During 1896-97.	
1	2	8	4	5	6	
DIRECT CHARGES.	Rs.	Rs.		Rs.	Rs.	
IWorks, mainte-			Water-rates	6,77,714	9,57,726	
nance and repairs II.—Revenue manage-	3,67,930	3,83,187	Navigation	61,261	70,006	
ment	1,56,571	1,65,484	Miscellaneous	33,148	36,961	
Total Direct charges	5,24,501	5,48,671	A example of a	7,72,123	10,64,698	
Indirect Charges	49,933	48,793	Total L386—Refunds of		5,048	
	One a second absolu		Revenue	6,807	0,040	
Total Working Ex- penses	5,74,434	5,97,464	1640 E. C.			
Net revenue, profit	1,90,882	4,62,181			- 04	
Total	7,65,316	10,59,645	Total Receipts	7,65,316	10,59,645	

Note.—The details by heads of expenditure for the year 1896-97 and nine preceding years will be found in the table given in paragraph 76 following.

75. The following statement compares the "Earnings" with the actual outlay for the years 1895-96 and 1896-97:—

Earnings	Transition (eriana. Arthuraturuna		1895-96. Rs.	1896-97. Rs.
Irrigation Navigation Miscellaneous	:::	***	Maringa Seas 14	 7,83,921 60,917 33,148	11,24,449 71.686 36,961
Deduct ref	unds of	Total revenue	:	 8,77.986 6,807	12,33,696 5,048
Net earnings Outlay	:::			 8,71,179 5,74,434	12 28,048 5,97,464
	Earn	ed profit		2,96,745	6,30,584

76. The following is a statement of the revenue account and working EINANCIAE expenses of the canals for ten years:—

	1887-88.	1888-89.	1889-90.	1890-91.	1891-92.	1892-93.	1898-94,	1894-95.	1895-96,	1896-97.
1	2	3	4	5	6	7	8	9	10	11
RECEIPTS.	Rs.	Rs.	Rs.							
Water-rates Navigation Miscellaneous	5,19,586 55,904 28,459	7,59,556 57,829 26,504	8,16,394 57:759 23,342	6,44,718 65,629 26,128	8,11,750 66,517 31,827	9,68,070 59,089 29,214	8,42,309 60,025 29,578	7,43.243 58,898 35,620	6,77,714 6,261 33,148	9,57,726 70,006 36,961
Total Less - Refunds of revenue	6,03,949 15,331	8,43,889 12,611	8,97,495 16,520	7,36,475 7,305	9,10,094 4,020	10,56,373 3,712	9,31,912 6,287	8,37,761 2,927	7,72,123 6,807	10,64,693
Total Receipts	5,88,618	8,31,278	8,80,975	7,29,170	9,06,074	10,52,581	9,25,675	8,34,834	7,65,316	10,59,645
WORKING EXPEN- SES.	3,46.									10,00,000
DIRECT CHARGES. IWorks, maintenance and repairs.		Total Carlo								- 40.000 A
Works (extensions and improvements)	5,532	10,426	4,712	3,263	3,812	6,541	7,419			
Repairs, including com-	3,08,448	3,28,182	2,92,992	2,72,831	2,59,832	2,80,579	2,65,928	10,972	20,428	25,029
Establishment, including direction and accounts cols and plant	2,10,227 28,221	1,97,677 33,920	1,82.667 33,460	1,88,895 28,527	1,89,196 23,843	2,08,810 28,031	2,22,213 27,206	2,20,227 2,31,729 27,543	1,32,057 2,00,094 15,351	1,51,717 1,83,041 23,400
Total	5,52,428	5,70,205	5,13,831	4,93,516	4,81,683	5,23,961	5,22,766	4,90,471	3,67,930	3,83,187
IIRevenue manage- ment.									No. of the	
Irrigation establishment Navigation ditto	1,35,243 14,308	1,58,249 14,165	1,52,823 14,305	1,45,528 14,242	1,52,113 14,264	1,59,300 14,480	1,49,732 14,391	1,46,960 14,291	1,42,311 14,260	1,50,530 14,954
Total	1,49,551	1.72,414	1,67,128	1,59,770	1,66,377	1,73,730	1,64,123	1,61,251	1,56,571	1,65,484
Total Direct charges	7,01,979	7,42,619	6,80,959	6,53,286	6,48,060	6,97,691	6,86,889	6,51,722	5,24,501	5,48,671
INDIRECT CHARGES.				Tr. Compage				-		4,10,012
Capitalization of abatement of land revenue Leave and pension allowances	 50,369	51,813	48,971	48,813	49,780	53,556	54,087	55,017		-
Total Indirect charges	50,369	51,813	48,971	48,813	49,780	53,556	54,087	55,017	49,933	48,793
Total working expenses	7,52,348	7,94,432	7,29,930	7,02,099	6,97,840	7,51,247	7,40,076	7,06,739	5.74,434	48,793
Net revenue	(-)1,63,730	36,846	1,51,045	27,071	2,08,234	3,01,334	1,84,699	1,28,095	1,90,882	5,97,464 4,62,181

The irrigation receipts show a very considerable improvement which was due to the largely extended area under irrigation during the year. Navigation and miscellaneous receipts have also increased. The working exponses somewhat exceeded those of the previous year, but were far below the average of the last ten years. The cost of maintenance and repairs was larger than in 1895-96, mainly because there was a closure of the canals in the year under review, and partly because extra silt clearance in front of the locks on the canals was necessary on account of the unusually large amount of silt in the water. The works carried out under the head of Extensions and Improvements

were the completion of the surface supply inlet at Dehri; the raising of certain bridges on the Arrah Canal; the remodelling of lock khalasis' sheds, and several works of small importance. The Eastern Main series of canals was closed from the 25th April to the 11th June 1896; the Western Main Canal series was closed from the 26th March to the 6th April 1896.

LBNGTHSFDOF CANALS AND DISTRIBUTA-RIES.

77. The following table shows the length of canals and distributaries in operation, and the areas commanded, provided with distributaries, and irrigated at the close of each of the last two years, respectively :-

					1896-97.								1895-96			
NAME OF CANAL,	Navigable canals.	Capals for irrigation only.	Distributaries.	Area protected from flood.	Area under command.	Area provided with distribu- taries.	Area irrigated.	Percentage of area irrigated to area provided with distri-butaries.	Navigable canals.	Canals for irrication only.	Distributaries.	Area protected from flood.	Area under command.	Area provided with distribu-	Area irrigated.	Percentuge of area irricated to area provided with distri-
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	и
Bastern Sone (Eastern Main	Miles.	Miles.	Miles. 9 341‡	Acres.	Acres. 15,462 390,693	Acres. 15,462 379,737	Acres. 4,158 104,280	27 27	Miles. 71 79	Miles.	Miles. 9 3414	Acres.	Acres. 15,462 390,693	Acres. 15,462 379,737	Acres. 2,321 85,3-5	15. 22
	861		3501		406,155	395,199	108,438	27	861		3501		406,155	395,199	87,026	22
Arrah Divi- Arrah	651	401 31	208 149 113		229.433 209,817 179,104	229,433 209,817 179,10\$	91.548 75,668 66,812	40 36 37	651	401 31	208 149 113	=	229,433 209,817 179,104	229,433 209,817 179,104	74,597 55,818 53,069	22 27 29
	651	711	470		618,354	618,354	234,028	38	651	711	470		618,354	618,354	183,47+	50
Dehri Workshops Division- Western Main	9		•••						9				1	4-		-
Buxar sion. Western Main Gurra Chowbey Branch Euxar Chowsa Branch	12½ 45½	38	461 551 196 1111		89,480 173,440 233,600 212,480	89,480 114,522 2:3,680 134,514	} 61,508 } 151,182	30 44 {	12à 46à	38 394	463 554 196 1113		88,480 173,440 253,000 212,480	89,480 114,522 203,580 134,514	35,954	11
	571	771	409		709,000	542,096	212,690	39	574	771	409		709,000	542,096	124,122	33
SONE CANALS	2184	1484	1,229}		1,733,509	1,555,649	555,156	35	2181	1482	1,:291		1,733,509	1,555,649	395,922	25

CHANNELS AND

78. The lengths of village channe's and the number of outlets in use during the year were was follows:-

Division.	Total length of village channels completed up to end of 1896-97.	Total number of temporary and perma- nent out- lets in use during 1896-97.	Number of permanent outlets.
1	2	3	4
Eastern Sone Arrah Buxar	M. Ft. 497 5,112 1,169 3,391 1,001 2,021	No. 1,963 2,503 2,378	No. 1,025 1,913 687
Total, 1896-97	2,668 5,244	6,844	8,625
Total, 1895-96	2,288 3,624	5,674	3,519

The increase in the number of temporary outlets from 2,155 to 3,219 is

due to the very large rabi irrigation during the year. The channels made by the villagers themselves increased during the year by nearly 400 miles. This, as the Superintending Engineer observes, is satisfactory. Steady, though slow, progress is being made in improving village channels,

79. The following is a statement of rainfall in the vicinity of the Sone Canals for the last five years:-

riebien van state i Deserva		AVERAG	E OF 22 ST	ATIONS.	in the co
	1892.93.	1893-94.	1894-95.	1895-96.	1896-97.
* 1	2	3	4	5	6
Kharif season { August September October	Inches. 15:47 4:27 (:33	Inches. 7:52 10:30 4:43	Inches. 1481 9.50 8.06	Inches. 10.41 5.90 0.33	Inches. 9.69 2.81
Total	20.07	22.24	32.37	16.(4	12.50
Kabi season { November December January February	0.03 0.61 2.07	0 32 0.09 0.23	2·08 0·03 0·56 0·61	0·14 0·01	0·73 0·31 0·03 1·08
Total	2.71	1.34	3.28	0.15	2:15
Whole year	38.36	47.66	58.22	36.56	32.05

The rainfall in the kharif season was abnormally bad: the average for the months of August, September, and October is about 23 inches, whereas in 1896 it was only 12.50 inches. The rain ceased entirely about the 22nd of September, and none fell during the "Hathia Naichatra" (26th September to about 10th October); the demand for water was accordingly most keen. The rainfall in the rabi season was considerably above the average, and it is interesting to observe that, in spite of this fact, the area of rabi irrigated was the largest on record. This exemplifies the effect of deficient rainfall in September and October in producing a large rabi demand.

80. There was no high flood in the Sone during the year. The highest level at the Dehri weir was 1.50 feet lower than the highest level in 1895-96, as is shown in the statement below. The R. L. of the crest of the weir is \$34.00:— RIVER SONE.

F	u	Ю	D	9	è
	86	10	8	7	9

LOCALITY.		1895-96—3 18	0th June 95.	1896-97—3 18	0th June 96.	Highest known. 1876 77-7th July 1876.		
			Above weir.	Below weir.	Above weir.	Below weir.	Above weir.	Below weir.
	1	- 68	2	3	4	5	6	7
Dehri			R. L. 238·80	Not record- ed, as the river rose	R. L. 337 30	R. L. 330·20	R. L. 342·10	R. L. 341.00
Barun		***	340-30	at night 338.50	338.70	336-80	343.50	342 70

The highest flood readings recorded in this circle for the river Ganges in 1896-97 were:-

River Ganges.

	Date.		D - 1	H	Highest known since 1875.				
LOCALITY.			Reading.	Date.			Reding		
1	2	- 4" 10 to	8.		4		5		
Buxar Deegah Hajipur, confluence of rivers Ganges and Gandak	20th August 21st ", 22nd ",	1896	R. L. 195·72 164·63 161·60	6th 14th 14th	August	1875 1879	Rs. 200·71 169·20		

IRRIGATION.

81. The irrigation for ten years, together with the rainfall over 16 stations actually situated on the canal-irrigated area, is shown below:—

YEAR	Kharif.	Rabi.	Perennial hot weather.	Total.	Rainfall.
1	2 -	3	_ 4	5 _	_ 6
**************************************	Acres.	Acres.	Acres.	Acres.	Inches.
1887-88	 220,428	69,945	25,007	315,380	40.18
1888-89	 238,895	100,142	16,872	355,909	45.43
1889-90	 230,741	55,613	18,928	305,282	49.65
1890-91	 211,726	51,318	17,970	281,014	52-23
1891-92	 248,819	210,907	14,997	474,723	26.82
1892-93	 274,839	126,195	9,727*	410,761	37.69
1893-94	 280,528	66,458	19,790*	366,776	46.62
1894-95	 255,361	41,664	17,109*	317,134	59.65
895-96	 261,485	115,343	18,394*	395,222	38.36
1896-97	 316,941	215,390	22,825*	555,156	30.59

* Hot-weather crop.

The total area irrigated was 159,934 acres more than that in the previous

IRRIGATION (UNDRR LEASES UNDER RULES OLD AND NEW.)

82. The following statement gives the areas of each crop irrigated under annual and five-year leases for 1890-91 and 1891-92 and under season and long-term (seven and three-year) leases from 1892-93 to 1896-97 under the new rules:—

Спор,	1890-91.	. 1891-92.	. 1892-93.	1893-94.	1894-95.	1895-96.	1896-97
1	2	3	4	5	6	7	8
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
Kharif Five-year leases Annual leases	189,227 22,499	200,716 48,103	Long-term leases 235,637 Season leases 39,202	254,515 26,013	233,756 24,605	227,761 33,724	244,122 72,819
Total	211,726	248,819	274,889	280,528	258,361	261,485	316,941
Rabi { Five year leases Annual leases	20 761 20,632	20,274 177,308	Long-term leases 36,329 Season leases 89,866	37,231 29,227	30,234 11,430	31,157 84,186	30.709 184,681
Total	41,393	197,582	126,195	66,458	41,664	115,343	215,390
Sugarcane Five-year leases Annual leases	13,568 4,402	13,801 1,196				i Loka	:
Total	17,970	14,997	•••••				
Hot-weather	9,925	13,325	Season leases 9,727	19,790	17,109	18,394	22,825
GRAND TOTAL	281,014	474,723	410,761	366,776	317,134	395,222	555,156
Total five-year leases	223,556 57,458	234,791 239,932	Total long-term leases 271,966 ,, season leases 138,795	291,746 75,030	263,990 53,144	258,918 136,304	274,831 280,345

[.] Under the new rules or the Sone Canals there are no separate leases for sugarcane; they are included in each season lease.

The total areas irrigated under each form of lease are abstracted as follows for convenient reference :-

			1892-93.	1893-94.	1894-95.	1895-96.	1896-97.
Area	irrigated	under long-term leases ,, season leases by sale by volume without permit	Acres 271,966 129,356 5,732 3,717	Acres. 291,746 74,292 57 681	Acres. 263,990 51,913 55 1,176	Acres. 258,918 120,392 13,856 2,056	Acres. 274,831 259,323 18,100 2,902
		Total	410,761	366,776	317,134	395,222	555,156

The areas irrigated in 1896-97 in both the kharif and rabi seasons are the largest on record.

The Superintending Engineer gives the following graphic description of the irrigation seasons and of the measures taken to cope with the unprecedented demand on the canals :-

"In the kharif season there were two periods of great pressure—in the transplanting season in August, and in October. The average discharges of the canals in August were about 10 per cent. larger than have ever been carried before in that month. The greatest difficulty was found in many places in getting the water to the fields in the lower parts of the areas leased. The cultivators in the upper parts of the village channels consumed the discharge allotted to the village. In the same way there was a difficulty in getting the water to the ends of the distributaries: the villages which had leases in the upper reaches drew all they possibly could, and the canal officers had, in some cases, to forcibly restrict drew all they possibly could, and the canal omeers had, in some cases, to forcibly restrict the discharge of the upper outlets in order to force the water to the lower ones. The same difficulty occurred in the main canals, the lower extremities were indifferently supplied. All canal officers were busily employed trying to distribute the water equitably, and, in the end, with fair success; but, had it not been for the rainfall after the 21st of August, there would have been some leases in which canal water would have been insufficiently there would have been some leases on high lands and or sandy lands when supplied. As it was, there were some few cases on high lands and on sandy lands where the supply given was short of the requirements, and a good deal short of what the people would have liked to have had. Indeed, if the water from the 21st July to the 21st of August had been supplied according to what the people wanted, the canals would have had to have been twice the size they are. The whole country was clamouring for water at the same time, and it took a month at least to supply water to transplant all the fields under lease, even although a rigid system of tatils was enforced. The people complained bitterly of the tatils, but without them the irrigation could not have been completed at all.

In September 1896 rainfall was less than 21 inches in the tract commanded by the canals; there was consequently a pretty strong demand for water during the whole month. It is usual for the cultivators to nigar their fields, that is, to drain them off in the middle of September, before the Hathia naichhatra, but this was not generally done. On the 22nd of September 1896 the rains ceased entirely. In the Hathia (26th September to about 10th October) and during the whole of October there was no rain at all. The demands for water were again insatiable. Usually the demand slackens after the 15th or 20th October, but in 1896 it was continuous all through the month. The kharif season ends technically on the 25th October, but water was supplied for rice crops up to the end of the first week in November, and the fact that water was given so late for the rice crop prejudiced the rabi area to a certain extent, as a larger area of that crop could have been watered if the available supply had not been absorbed by the rice in the early part of November.

Special measures were adopted in October to ensure a larger supply of water than usual. The shutters of the weir were specially treated. The Main Western Canal was run at higher levels than have ever been previously recorded. The Superintending Engineer found it necessary to be constantly on the spot encouraging larger and still larger discharges: all the subordinates feared to exceed what they thought was the limit of safety, and they were right to be cautious. No doubt the canals were forced at some risk; but the result was successful and the fact has now been established that the canals will carry a good deal more than is laiddown as their maxima. . But of course such discharges need care and intelligent supervision.

The average discharges during the ten days of greatest pressure, when the largest quantities were passed, have been :—

Cubic feet per second.	97	Cubic feet per second.	
4,296	as compared with	4,009	the previous maximum.
	as compared with	1,733	the previous maximum.
	per second. 4,296	per second. 4,296 as compared with	per second. 4,296 as compared with 4,009

But even these discharges were insufficient to please the people. During the end of September and the first fifteen days of October, the discharges were limited by the capacity of the canals After that the discharges of the canals were limited by the amount of water available in the river. The Sone itself was not copious enough to satisfy the thirsty cultivator.

The level of the water in the river fell below the crests of the shutters: all the leakage was stopped as far as possible: a staff of men was employed stuffing every cranny in the shutters with straw, and all the water the river could supply was sent down the canals. The gauged discharges showed that the supply in the Sone was only 5,610 cubic feet per second on the 25th of October 1896, as compared with 8,542 cubic feet, which was the minimum previously recorded since observations of the river in October were commenced in 1885."

DISTRIBUTION BY SUBDIVI-

The areas irrigated in 1896-97, in each division and subdivision, are shown below:-

		Acres.	Acres.
Eastern Sone Division-			
Daudnagar subdivision		 53,676	
Bikram ditto		 54,762	
			108,438
Arrah Division-			
Nasriganj subdivision		 40,771	
Koath ditto		 75,668	
Ramnagar ditto		 66,812	
Ageaon ditto		 50,777	
			234,028
Buxar Division-			
Sikroul subdivision	•••	 92,976	
Jamrore ditto		 72,339	
Basawan ditto		 47,375	
			212,690
	Tota1	 	555,156
			AND THE PROPERTY OF

LONG-TERM LEASES. Particulars of the long-term leases are given in the following statement:-

Maria Maria		Leases which laps-	The second second	FORCE ON 1896.	IST APRIL	LEASES ENT		Total are
Division.		ed on 31st March 1896.	Seven-year leases.	Five-year leases.	Three year leases.	Seven-year leases.	Three-year leases.	under leng term lease in 1396-97
1		2	3	4	5	6	7	8
		Acres.	Acres	Acres.	Acres.	Acres.	Acres.	Acres.
Eastern Sone Arrah Buxar	:::	20,025 34,697 15,184	47,537 82,694 42,086	•••	545 1,128	12,579 48, 20 24,758	644	60,661 133,086 66,844
Total		69,906	172,317		1,673	85,957	644	260,591

Five-year leases have now entirely disappeared, and the remaining three-

year leases will soon expire also.

The Superintending Engineer remarks that during the year 1897-98 only a few three-year leases expire, and there is no doubt that the area under lease will exceed the 275,567 acres which was the area leased as long-term leases in 1893-94. Indeed, in the Arrah Division the area under lease is above the previous maximum in that Division.

UNAUTHO-RIZED IRRIGA-TION.

vious maximum in that Division.

83. The assessments for the unauthorized use of water, and for wastage, were in excess of those of the previous year. The figures for the last five years are given below:—

	1892-93.	1893-94.	1894-95.	1895-96.	1896-97.
and the second s	Rs.	Rs.	Rs.	Rs.	Rs.
Unauthorized use of water Wastage of water	14,549	4,760 615	6,910 682	8,568 1,103	13,253 2,460

The assessments for wastage of water were almost entirely made in the rabi and hot-weather seasons, there was little or no wastage in the kharif season.

84. The assessments for water sold by "volume" amounted to Rs. 28,143, against Rs. 22,395 in the previous year.

The approximate area irrigated is given below :-

Division.	Approximate area, 1896-97.	Approximate area, 1895-96.
1	2	8
Arrah	Acres. 8,143 6,955 3,002	Acres. 357 2,948 10,551
Total .	. 18,100	13,856

The Superintending Engineer writes:-

"The amount of water sold was limited by the quantity available: there was a very large demand, but it was impossible to satisfy it, simply because the supply of water was consumed by those who had the right to it. The largest sale by vloume was effected in the Bikram subdivision of the Eastern Sone Division, where the zilladar, Babu Jharkandi Lall, was particularly energetic in the matter. The Ageaon and Koath subdivisions also did very well. This system of sale by volume gives a great deal of trouble to all concerned with it, and is open to much abuse, but there is no doubt that it was the means of saving some 18,000 acres of rice from total loss."

85. The following statement shows the areas of the several crops actually irrigated in each Division since the year 1892-93, when the new rules came into force:—

IRRIGATION IN BACH DIVISION (UNDER THE NEW RULES).

	EAS	TERN S	SONE D	ivision.	1		ARR	AH DIVI	SION.	se		Bux	AR DIVI	SION.		r	OTAL FO	R ALL D	IVISION	
YHAB.	ases.	SBAS	ON LE	ASES.		eases.	SEAS	ON LEAD	ses.		eases.	SEAS	ON LEAS	Es.	0.	eases.	SEAS	ON LEAS	es.	
Attention of the second	Long-term le	Kbarif.	Rabi.	Hot-wea-	Total.	Long-term le	Kharif.	Rabi.	Hot-wea-	Total.	Long-term l	Kharif.	Rabi.	Hot-wea-	Total.	Long-term	Kharif,	Rabi.	Hot-wes-	Total.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	19	19	20	21
	Acs.	Acs.	Acs.	Acs.	Acs.	Acs.	Acs.	Acs.	Acs.	Acs.	Acs,	Acs.	Acs.	Acs.	Acs.	Acs.	Acs.	Acs.	Acs.	Acs.
802-93	64,801	7,873	6,987		79,661	124,814	14,835	35,996	4,664	180,309	82,351	16,494	46,883	5,063	150,791	271,966	39,202	89,860	9,727	410,781
893-94	67,894	9,123	4,880	2,531	84,428	133,894	7,987	18,064	14,219	174,164	89,958	8,903	6,283	3,040	108,184	291,746	26,013	29,227	19,790	366,776
1894-95	68,657	7,359	2,372	2,469	80,857	129,308	7,760	8,318	13,058	158,444	66,025	9,486	740	1,582	77,833	263,990	24,605	11,430	17,109	317,134
895-96	71,273	6,710		3,610	87,626	127,738	10,313	32,336	13,087	183,474	59,907	18,701	45,817	1,697	124,122	258,918	83,724	84,186	18,394	395,221
1896-97	63,120	-	0.0	2,193	108,438	142,155	17,384	58,553	15,936	234,028	69,556	31,604	106,834	4,696	212,690	274,831	72,819	184,681	22,825	555,156

86. The following table gives the duties obtained during the kharif and rabi seasons on the several canals for the last three years:—

DUTY OF

		7.7	Kharif.				
	122 8	1896	5-97.	189	5-96.	189	94-95.
		Acres.	Duty.	Acres.	Duty.	Acres.	Duty.
gada are a la l	a drag	2	3	4	5	6	7
Eastern Main Series		82,366	53.97	72,861	52-61	71,180	78.83
Arrah Canal System		141,569	64.35	120,465	65.26	119,625	91.04
Buxar Canal System		93,006	64.05	68,159	61.07	67,556	146.22
Western Main Series		234,575	63.38	188,624	63.25	187.181	102.79
Sone Canals		316,941	60.64	261,485	59.87	258,361	92.77

Rabi.

The state of the s	189	6-97.	189	5-96,	1894	95.
A 400	Acres.	Duty.	Acres.	Duty.	Acres.	Duty.
1	2	3	4	5	6	7
Eastern Main Series	23,879	64.19	11,155	33.30	7,208	15.56
Arrah Canal System	76,523	87.26	49,922	70.70	25,761	68.51
Buxar Canal System	114,988	125.40	54,266	100.12	8,695	84.41
Western Main Canal Series	191,511	106.75	104,188	83.48	34,456	71.93
Sone Canals	215,390	99.44	115,343	72.87	41,664	44.23

The Superintending Engineer remarks:-

"During the ten days of maximum demand in October the duty was 54 acres to the cubic foot in the Western Main Series of Canals on the assumption that the whole area was irrigated in those ten days, which is not quite correct. The figure is, nevertheless, an evidence of progress, as hitherto 50 acres has been taken as the limit. During the month of October the average depth of water placed on each field in Shahabad, on the assumption that all the water reached the fields, was rather more than 12 inches."

The average duty for the Sone Canals, in the kharif season, was a little better than that obtained in 1895-96; the duty in the rabi season was considerably higher.

Observations have been made in the Arrah Division, for the last ten years, showing the aggregate depth of water placed on the rice fields during the months July to October, on the hypothesis that the entire "utilized" discharge of the canal reaches the fields. In 1896 the total depth of rain-water and canal-water on the fields was 4.78 feet as compared with an average of 5.51 feet for the previous nine years.

87. Crop experiments.—The results of the experiments made during the

year to determine the yield of rice and wheat crops irrigated from the canals are given in the following tables:-

TABLE I.

Result of experiments on "good" rice crops irrigated with canal water for the year 1896-97.

2.2	experi-	Average	YIELD P	ER ACRE WI	EIGHED
Division.	er of	Grai	in.	Stra	w.
	Number ments.	Maunds.	Seers.	Maunds.	Seers.
1	2	3	4	5	6
Eastern Sone Arrah Buxar	41 39 30	34 30 82	8 36 19	64 59 66	31 5 13
Sone Circle average	110	32	22	63	8

W.B.-A good crop means a crop decidedly above the average crop in the village in which it was taken.

TABLE II.

Result of experiments on "average" rice crops irrigated with canal water for the year 1896-97.

			experi-	AVEBAG	E YIELD I	PER ACRE WE	IGHED
D	IVISION.	4	er, of	Grai	in.	Stra	w.
			Number, ments.	Maunds.	Seers.	Maunds.	Seers.
	1	, ea. 4	2	3	4	5	6
Eastern Son Arrah Buxar	· /	::	45 49 34	20 28 24	37 6 28	41 45 52	21 5 22
Sone Circle	average		128	22	31	45	33

N.B.—An "average" crop means a crop that was considered as an average crop in any village in which an experiment was made.

TABLE III.

Result of experiments on "good" wheat crops irrigated with canal water for the year 1896-97.

	only on	IRR	IGATED W	VITH CA	NAL WAT	ER.
Division.	Staple.	xperi-	Avi	ERAGE YII	ELD PER ACE	E.
272130Q.	Staple.	Number of experiments made.	Grai	n.	Stra	w.
	10101	Number	Maunds.	Seers.	Maunds.	Seers
1	2	.3	4	5	6	7
Eastern Sone Arrah Buxar	Wheat	6 18 13	13 17 17	15 23 8	13 30 19	31 26 17
Sone Circle average		37	16	30	23	39

TABLE IV.

Result of experiments on "average" wheat crops irrigated with canal water for the year 1896-97.

Eastern Sone Arrah Buxar	::	Wheat	14 19 18	10 12 12	35 37 21	16 21 13	16 6
Sone Circle ave	rage		51	12	9	17	1

New rules were issued by Government during the year for regulating the method of recording crop experiments, but they were not brought fully into operation.

DEMANDS, COLLECTIONS AND BALAN-CES.

88. The demands, collections, and balances of water-rates for the last five years are shown below:—

YEAR.	Amount outstanding at commencement of year.	Amount falling due for recovery during the year.	Total for recovery.	Cash realisation.	Remitted or written cff.	Balance at the end of the year.
1-33	2	3	4	e 5	6	7
1000.00	Rs.	Rs.	Rs	Rs.	Rs.	Rs.
1892-93	1,11,443	9,50,733	10,62,176 9 40,951	9,59,472 8,34,261	14,914 4,832	87,790 1,01,858
1893-94	87,790	8,53,161	7.88,753		4.031	40,809
1894-95	1,01,858	6,86,905		7,43,863		
1895-96	40,809	6,56,246	6,97,055	6,69,015	5,017	22,993
1896-97	22,993	9,50,866	9,73,859	9,58,926	5,505	9,428

There were no changes of importance in canal administration during the year. It was, however, the last year of the old rates; from the year 1897-98 the water-rates have been slightly increased.

ABREARS

89. In the following statement the Deputy Collector shows the extent to which the arrears as well as current demand have been worked off:—

	Demand of 1896-97, consisting of—	Collected or remitted in 1896-97.	Percentage of demand adjusted.	Unadjusted balance at close of year.
1	2	3	4	5
D 1805 08	Rs. 954 22,039	Rs. 899 21,640	94·24 98·19	Rs. 55 399
C	22,993 9,50,865	22,539 9,41,891	98·02 99·05	454 8,974
Total .	9,73,858	9,64,430	99 03	9,428

The results which this statement exhibits are received with great satisfaction. They are most creditable to the Deputy Collector, Moulvi Syed Mohomed Nassiruddin, and his staff. The current demand is unusually large and the arrears are unprecedentedly small. The percentages of collections are unrivalled.

COLLECTIONS.

90. The following statement gives the collections in each district:-

		DEMAND.	September 1		Anjust	TMENTS.		Balance on	Percen-
DISTRICT.	Arrears on 31st March 1896.	Current demand for 1896-97.	Total.	Collection.	Remission made by canal officers.	Written off as irreco- verable,	Total.	31st March 1897.	column to column 4.
1	2	8	4	5	6	7	8	. 9	10
Shahabad Patna Gaya	Rs. 13,760 3,856 5,377	Rs. 7,53,751 95,659 1,61,455	Rs. 7,67,511 99,515 1,06,832	Rs. 7,56,522 96,366 1,06,037	Ra. 4,029 309 450	Rs. 685 31	Rs. 7,61,236 98,706 1,06,488	Rs. 6,275 2,809 344	Rs. 99°18 97°10 99°67
Total	22,993	9,50,865	9,73,858	9,58,925	4,788	717	9,64,430	9,428	99.03

Beides the collections of Rs. 9,58,925 shown above, a further sum of Rs. 425 was credited to water-rate accounts as below:—

Surplus or excess recoveries Process fees in certificate cases Miscellaneous	 	 (—)1,199 1,539 85
	Total	 425

91. The sums remitted in 1895-96 and 1896-97 according to the figures REMISSIONS. given by the Examiner of Accounts were—

			1895-96.	1896-97.
By Ganal off By Civil	icers		Rs. 907 4,110	Rs. 4,059 1,446
		Total	 5,017	5,505

According to the figures supplied by the Superintending Engineer the remissions were—

	1895-96. Rs.	1896-97. Rs.
	INS.	Lis.
Written off by Civil officers as irrecoverable	3,811	716
Remissions granted by Executive Engineers, including refunds	2,430	8,529
Extraordinary remissions by Superintending Engineers	298	730
The 196 at 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Remitted on revised and cancelled khatianis	4,574	4,527
Total	10,113	14,502

The amount written off as irrecoverable was very small, and was much less than in any previous year.

Of the Rs. 8,529 remitted by Executive Engineers, Rs. 4,471 were in reality refunds on account of amounts which had been recovered by the Deputy Collector before the remission statements had been received by him.

The following table explains the remissions made by Executive Engineers:—

Cla ss.	Causes.	Eastern Sone Division	Arrah Division.	Buxar Division.	Tetal 1896-97.	Total 1895-96
1	2	3	4	5	6	7
		Rs.	Rs.	Rs.	Rs.	Rs.
a	Charge by mistake for land cultivated by others	\$ 		3	3	18
<i>b</i>	Excess measurement or errors in cultivation	80	344	389	813	432
c	Lift charged as flow	2	28	15	45	5
- d	Irrigation not denied, but remitted as not chargeable under the Act	1	13	51	65	99
6	Land not having been irrigated at	51	274	288	613	1,392
f	Injury to crop due to insufficient	01	214	200	010	1,092
Mark Service of	supply	262	1,312	2,239	3,813	29
g	Land thrown temperarily out of cultivation (applicable to long	The state of the s		old James) out	
h	leases only) Failure of crop originally sown,	37	4	1	42	•••
	Rule 82	589	280	2,056	2,935	341
i	Land appropriated for other pur-		5			
j	poses than cultivation Double assessment, as when land	•••	8	•••	3	9
	assessed on a season lease is sub-		The second second		re-en-serio	Varying
	sequently included in a long lease in the same year	32	16	0 149	197	105
1	Total	1,354	2,274	5,201	8,529	2,430

The totals for the last five years are given below:-

 1892-93.
 1893-94.
 1894-95.
 1895-96.
 1896-97.

 Rs.
 Rs.
 Rs.
 Rs.
 Rs.

 4,620
 2,180
 2,640
 2,430
 8,529

The remissions were unusually large during the year, owing partly to the fact that the Superintending Engineer issued orders that, as the year was one of extreme pressure in the kharif season, remissions were to be given more freely than usual when there were bad crops; partly to the fact that the large area irrigated naturally involved larger remissions; and partly to the fact that caterpillars did a good deal of damage in some parts to the rabi crops.

The percentage of remissions on the gross demand was as follows in each

Division :-

Percentage of remissions to gross demand.

				1895-96.	1896-97.
Eastern Se	one Division			0.05	0.22
Arrah	ditto			0.05	0.31
Buxar	ditto	•••	***	0.28	0.66

REVENUE ESTABLISH-MENT. 92. The following statement shows the expenditure on the revenue establishment for the last five years:—

Particulars.	1892-93.	1893-94	. 1894-95	1895-96	. 1896-97
1 .	2	3	4	5	6
Establishment under Collector.	Rs.	Rs.	Rs.	Rs.	Rs.
Permanent establishment, including travelling allowances Temporary establishment Contingencies Headmen's fees Fees to patwaris	E0 500	55,308 2,903 4,274 5,166 368	3,217	55,466 3,960 4,248 11,916	
Total establishment under Collector	68,003	68,019	71,547	75,590	74,489
Establishment under Superintending and Executive Engineers.					
Permanent and temporary establishment, including travelling allowances Contingencies Water-regulation establishment Headmen's fees	52,187 4,768 2,310 32,032	49,930 3,426 2,277 26,080	45,335 3,936 2,246 23,896	46,703 2,745 2,270 15,003	51,357 4,240 2,357 18,087
Total establishment under Executive Engineers	91,297	81,713	75,413	66,721	76,041
Total	1,59,300	1,49,732	1,46,960	1,42,311	1,50,530
Collections of water-rates and miscellaneous revenue by the Canal Revenue Department	9,71,202 16·4	8,45,177 17·7	7,45,691 19·7	6,79,702 20·9	9,59,350 15·6

The increase in permanent establishment and travelling allowances, under Collector, is due partly to increase in salaries consequent on promotion, but mainly to increase in travelling allowances due, apparently, to the greater activity of the staff. The increase in contingencies is partly due to the cost of altering a number of old receipt forms which were in stock. The increase in the establishment under Executive Engineer is mainly due to extra temporary establishment necessary to deal with the increased area under irrigation. The percentage is the lowest on record.

93. The total cost of the revenue establishment under each Executive Engineer, per acre irrigated, is shown below:—

		S CHOL	1896-97		1895-96.
Dr	VISION.	Revenue* establish- ment.		Cost per acre.	Cost per acre.
	1	2	3	4	5
Eastern Sone Arrah Buxar		Rs. 16,540 33,053 26,450	Acres. 108,438 234,028 212,690	A. P. 2 5 2 3 1 11	A. p. 2 11 2 7 2 8
Total Son	e Canals	76,043	555,156	2 2	2 8

980

94. The following statement gives particulars of the disposal of com- COMPLAINTS. plaints. Claims for ordinary remission are distinguished from other complaints, such as petitions alleging damage from the canals, complaints against individuals, and other miscellaneous claims. The totals are compared with those of the two previous years:-

	CLAIMS	FOR ORDINA	RY REMISS	IOM.	OTHER	COMPLAI	NTS.	Total complaints received during	
DIVISION.	Received during the	Dispo	sed of.		Received during the	Di		the year, excluding those pend-	Pending
1586 44	year and pend- ing from previous year.	Remission allowed.	Remission refused.	Pending.	year and pending from last year.	Disposed of.	Pending.	ing from previous year.	
1	2	3	4	5	6	7	8	9	10
Eastern Sone Arrah Buxar	No. 625 3,549 4,754	No. 244 1,218 1,846	No. 316 2,101 2,363	No. 65 235 545	No. 44 184 360	No. 41 130 222	No. 3 54 138	No. 636 3,623 4,746	No. 68 289 683
Total, 1896-97	8,928	3,303	4,780	845	588	893	195	9,005	1,040
Total, 1895-96	3,575	1,127	1,948	500	186	175	11	3,686	511
Total, 1894-95	2,641	866	1,708	67	124	116	8	2,557	75

The Superintending Engineer states that an increase in the number of complaints was to be expected in a year of such large irrigation. They involve a very great deal of work.

95. The following statement shows the number of appeals to the APPEALS, Collectors of districts against Executive Engineers' decisions, and how they were disposed:-

	Number of	APPEALS-	Appeals	Appeals dis-	
Division.	Pending from last year.	Instituted during the year.	allowed.	charged.	Pending
1	2	8	4	5	6
Eastern Sone Arrah Buxar	No. 1 1	No. 1 11 5	No	No. 2 5 4	No 7 1
Total	2	17		11	8

^{*} Includes proportion of water regulation establishment employed on the head works.

Cases under the Act. Thirty-three persons accused were convicted, and nine discharged. The fines imposed amounted to Rs. 248, and the number of days' imprisonment aggregated 67.

CERTIFICATE 97. The Special Deputy Collector in charge of the collections continues cases.

to deal with the certificates required in realizing water-rates.

A comparative statement of certificate cases instituted during 1895-96 and 1896-97 against defaulters, for failing to pay water-rates, in the districts of Shahabad, Patna and Gaya, is given below:—

		SHAI	IABAD.		and the second second	PAT	NA.		der-weining	G	LYA.			Tor	IL,	
	185	95-96.	1896	-97.	189	5-96.	189	6-97.	189	5-96.	189	6-97.	1895	-96.	18	96-97.
	Number.	Amount.	Number.	Amount.	Number.	Amount.	Number.	Amount.	Number.	Amount.	Number.	Amount,	Number.	Amount.	Number.	
and the second of	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	ı
		Rs.	1			Rs.		Rs.		Rs.	4 70 4	Rs.		Rs.		1
Cases for disposal— Cases pending at the close of the pre- ceding year.	66	1,405	6	29	3	31			1	4	2	107	70	1,440	8	
Cases instituted during the year	1,096	8,212	912	9,432	102	506	84	866	55	873	40	1,018	1,253	9,591	1,036	11,
Total	1,162	9,617	918	9,461	105	537	84	866	56	877	42	1,125	1,323	11,031	1,044	11,4
Cases disposed of— By being struck off, owing to the demand having been remitted and	39	675	19	288					*			7	39	675	19	,
cancelled. By being wholly satisfied	1,117	8,913	891	8,456	105	537	84	866	54	770	42	1,125	1,276	10,220	1,017	10,4
Total	1,156	9,588	910	8,744	105	537	84	866	54	770	42	1,125	1,315	10,895	1,036	10,73
Balance outstanding at close of the year	6	29	8	717					2	107			8	136	8	7

The statement shows that 1,036 cases were instituted during the year,

against 1,253 and 2,049 in the two previous years.

There were 292,536 rate-payers, out of which number certificates were filed against 1,036 only. The collections were made with very little friction, the number of certificates issued being less than in any previous year.

98. The navigation receipts for the last five years are shown in the

statement below:-

NAVIGATION RECEIPTS.

			EASTEI	MAIN	SERIES.	WESTE	en Main		Total	
	YEAR.	Number of miles open.		Tollage receipts.	Trans- port ser- vice re- ceipts.	Number of miles open.	Tollage receipts.	Trans- port ser- vice re- ceipts.	Total.	tollage only.
73.54 Sec. 3.	1	LOT I	2	3	4	6	6	7	8	9
1892-93 1893-94 1894-95 1895-96 1896-97			No. 864 864 864 864 864	Rs. 20,832 22,954 19,787 22,082 20,249	Rs	No. 1321 1321 1321 1321 1321 1321	Rs. 29,164 27,594 29,562 29,288 36,196	Rs. 9,093* 9 477* 9,550* 9,891* 13,561*	Rs. 59,089 60,025 58,899 61,261 70,006	Rs. 49,996 50,548 49,349 51,370 56,444

[•] There is no longer any Government transport service. These receipts are on account of hire of steamers, boats and sundries

The increase of Rs. 5,075 in the receipts is mainly due to the transport of railway materials for the Mogulserai Gaya-Railway near Dehri.

TOLLAGE (ASSESSED).

	YEAR.		Pa tna Canal system Eastern Main Canal series.	Arrah Canal system.	Buxar Canal system.	Total.
	1		2	3	4	5
1892-93 1893-94 1894-95 1895-36 1896-97		:: ::: :::	Rs. 20,968 23,098 19,663 21,892 20,476	Rs. 18,196 19,812 19,837 17,861 28,105	Rs. 10,869 7,490 9,800 11,273 9,544	Rs. 50,028 50,430 49,100 51,026 58,125

COMPARISON OF TRAFFIC.

		1892-9	1893-94.	1894-95.	1895-96.	1896-97.
1		2	3	4	5	6
Number of miles open Toll collections Collections per mile Boats, including empties Tonnage of boats Estimated value of cargo, including rafts	No. Rs. No. Tons	2183 50,028 229 6,710 97,841 57,32,365	218½ 50,430 230 6,666 98,551 61,19,288	218½ 49,300 225 6,119 85,573 49,20,464	218½ 51,026 234 5,838 78,441	218] 58,125 266 6,944 105,665

99. The contract for the transport service continued with Messrs. Radford TRANSPORT & Co., the rates being Rs. 750 per month for the hire of steamers, and Rs. 1,250 for compounded tollage. The ordinary repairs to the steamers, which belong to Government, are executed by the lessees.

The following table shows the extent of the steamer traffic:-

Particulars.	Patna Canal.	Arrah Canul.	Buxar Canal.	Total.
1	2	3	4	5
Passengers carried { Up No. Down ,,	3,925	13,181	6,562	23,668
	3,670	12,944	7,179	23,793
Cargo carried { Up Tons Down ,,	942	529	232	1,703
	844	660	408	1,912

On the Patna Canal the steamer makes one trip in a week each way. On the Arrah and Buxar Canals there is a bi-weekly service. Rupees 9,030 were realized during the year for the hire of steamers, and Rs. 4,531 for the hire of accommodation boats, mud punts, and jolly boats, as compared with Rs. 9,000 and Rs 891 respectively in the previous year. The increase is entirely due to the hire of mud punts which were let to Messrs. Bird & Co. for the carriage of the railway material to Dehri.

100. The details of the miscellaneous receipts for the last five years are given below:-

PARTICULARS.	1892-93.	1893-94.	1894-95.	1895-96.	1896-97.
) 1	2	3	4	5	6
	Rs.	Rs.	Rs.	Rs.	Rs.
Sale of water Plantations Other canal produce Water-power Rent of buildings Fines Itent of lands Fisheries Cost of process Sale of old materials Other items	805 852 967 1,138 8,807 362 9,241 523 2,955 35 3,529	730 1,164 1,651 978 8,921 20 9,014 697 2,628 139 2,736	867 1,671 2,793 1,715 8,267 456 12,772 582 2,432 11 4,054	347 3,239 1,605 1,180 8,068 218 13,279 553 1,893 8 2,758	1,280 2,958 1,027 1,347 9,3-4 208 13,030 342 1,639 279 5,597
Total	29,214	29,578	35,620	33,148	36,961

The expenditure on maintenance and repairs, by main sub-heads, for the last five years is shown below:-

Particulars.	1892-93.	1893-94.	1894-95.	1895-96.	1896-97.
1	2	3	4	5	6
Head works Main canal, including branches Distributaries	Rs. 22,374 2,00,130* 55,918	Rs. 27,297 1,89,160 46,457	Rs. 29,618 1,48,428 37,802	Rs. 21,077 75,573 33,101	Rs. 24,188 83,880 42,865
Drainage and protective works Cost of working transport service Compensation	2,167	3,014	4,379	2,253	783
Total	2,80,579	2,65,928	2,20,227	1,32,057	1,51,717

^{*} Includes Rs. 600 for the Arrah-Dehri Telegraph line and Rs. 4,401 on account of theft money in the Revenue Division and noney embezzled in the Patna district.

102.	The cost.of	repairs to he	ead works	during the	last five y	ears was:-
		1000	00 1000	04 1004 05	100= 00	1000 00

Weir on Sone River Other works	 Rs. 14,058 7,577	Rs. 18,262 8,301	Rs. 22,426 5,696	Rs. 13,922 6,344	Rs. 16,542 7,432
Total	 21,635	26,563	28,122	20,266	23,974

The expenditure on the Sone weir was increased by the repair of the pitching of part of the weir which had, in the course of years, been displaced to some extent.

103. The following table details the expenditure on maintenance and irs in each division for the last three years:—

SHA-CLEARING

The expenditure on "Maintenance and Repairs" exceeded that of the previous year by Rs. 18,048. The increase occurred, mainly because there was a closure of the canals in the year under review, and partly because extra silt clearance in front of the locks on the canals was necessary on account of the unusually large amount of silt in the water. The expenditure was, however, considerably below the average.

considerably below the average.

104. The following table gives particulars of dredging during the year, compared with the results of the two previous years:—

645.0 875.7 96.0		1894-95.			1895-96.		100	1896-97.		
CARATS.	Quantity dredged.	Cost, includ- ing removal over spoil bank, or discharge into river.	Rate per 1,000 cubic feet.	Quantity dredged.	Cost, includ- ing removal over spoil bank, or discharge into river.	Rate per 1,000 cubic feet.	Quantity dredged.	Cost includ- ing removal over spoil bank, or discharge into river.	Rate per	
1	2	3	4	5	6	7	8	9	10	
Eastern Main and Patna Canals	C. ft.	Rs. 6,644	Rs. A. P. 5 4 6	C. ft.	Rs. 3,353	Rs. A. P.	C. ft.	Rs.	Rs. A. P.	
Wostern Main Canal(1—9 miles) River Sone	4,272,874 3,704,946	26,211 6,533	6 2 1	44,748 2,335,863	192	4 4 7	34,716 3,244,365	2,759 67 5,079	6 3 0 1 14 0 1 9 0	
Head Look	65,195	246	3 12 6	35,894	190	5 4 8	31,156	98	3 2 4	
Total	8,043,015	32,990	4 1 7	2,416,505	4,245	1 12 1	3,310,237	5,244	1 9 4	

The rates given above include the cost of lifting the silt into barges, and of carrying it over the spoil banks, or discharging it into the river.

The measures which have been adopted to check the deposit of silt at the head of the canals, have continued to work successfully, but the results are not quite as good as those of the previous year. Very large discharges were passed into the canals during the year, and there was much more silt in the water, as was proved by the analyses at Dehri. The increased quantity of dredging was, however, mainly connected with the channel across the river Sone which has to be cut every year. There was a reduction in the quantity and cost of the dredging done in the Main Western Canal and head lock

105. The expenditure on repairs to dredgers is shown below for the last four years:—

REPAIRS TO DEEDGERS

	1893-94.	1894-95.	1895-96.	1896-97.
1	2	3	4	5
	Rs.			
	ns.	Rs.	Rs.	Rs.
12 Fouracres' dredgers	6,467	6,036	3,254	1,846
2 Bruce's ditto	627	362	114	97
2 English ditto	3,575	2,724	£60	188
Mud punts	3,075	2,508	1,242	724
Total	13,744	11,630	5,179	2,855

The reduction in the cost of repairs in the last four years is most mearked

The capital cost of the dredging plant now on the Sone Canals is given below:—

The state of the s	Two English dredgers.	Two old Bruce's dredgers.	Twelve Fouracres' dredgers.	One new Bruce's dredger.	Mud punts.	Total.
1	8	3	4	5	6	7
Capital cost as shown in Appendix XII of the Revenue Report of 1886-87 Capital expenditure since 1886-87 up to	Rs. 1,21,205	Rs. 33,027	Rs. 1,06,901	Rs.	Rs. 2,39,105	Rs. 4,90,238
31st March 1897			*****	547	83,758	84,308
*Total capital cost of plant at end of 1896-97	1,21,205	33,027	1,06,901	547	3,12,863	5,74,54

There is a reduction due to the transfer of the second Bruce's dredger to the South-Western Circle. It would be possible now to sell some of the other dredgers if a purchaser could be found. Some of the Fouracres' dredgers will be dismantled.

The following statement shows the charges which should be added to the rates for dredging on account of interest on capital and repairs to the plant: no allowance is made for depreciation of the plant:—

	PARTICULARS.		Prime cost.	Interest at 4 per cent.	Charge for in- terest per 1,000 cubic feet.	Cost of repairs.	Charge for re- pairs per 1,000 cubic feet.	Charge for in- terest and re- pairs in 1896-97.
TARREST ST.	1		2	3	4	5	6	7
Fouracres' dredgers—	Quantity of silt lifted, (Eastern Sone Division Arrah Division Dehri Workshops Division (Buxar Division	Cubic feet. 445,649 200,195 2,087,688 612,472 3,346,604	Rs	Rs 4,276	Rs. A. P.	Rs	Rs. A. P.	Rs. A. P.
Bruce's dredgers English or ladder dredgers — Mud punts —In all Div	Dehti Workshops Division Ditto ditto	620,349 602,200 4,568,553	38,674 1,21,205 3,12,863	1,343 4,848 12,514	2 2 8 8 0 10 2 11 10	97 188 724	0 2 6 0 4 11 0 2 7	2 5 2 8 5 9 2 14 5
91 7			5,74,543	22,981	•	2,865		

The Superintending Engineer gives also the following statistics of the gross cost of dredging work done on the Sone Canals, exclusive of hand clearances, but he points out that the figures do not include provision for depreciation of the plant:—

Period.	Gross quantity dredged in all divisions.	Cost of "lifting" and "discharging."	Repairs to dredg ing plant.	Total cash expendi- ture.	Interest on capital cost of plant.	Grand total.
1	3	* 3		6	6	7
Average of 5 years ending 31st March 1889.	Cubic feet. 10,977,293	Rs. 62,826	Rs. 13,575	Rs. 76,401	Rs. 19,609	Rs. 96,010
Year 1889-90	10,378.752 12,357,802 10,967,078 13,034,661 13,515,482	57,395 62,644 61,433 63,781 69,374	13,666 15,635 13,933 13,456 13,744	71,061 78,279 75,366 77,236 83,118	19,609 19,609 19,609 19,609 19,609	90,670 97,888 94,976 96,848 1,02,727
Average of 5 years ending 31st March 1894.	12,050,753	62,925	14,087	77,012	19,609	96,621
Year 1894-95	9,432,461	40,264	11,630	51,894	24,099	75,99
Year 1895-96	3,550,791	10,238	5,170	15,408	23,700	39,108
Year 1996-97	4,568,563	11,498	2,855	14,353	22,981	37,334

106. The quantity of silt cleared by hand from main canals in the Eastern Sone Division, and the cost, compared with the figures for the two previous years, is shown below:-

SILT CLEARED BY HAND.

	1894-95.			1895-96.			1896-97.			
900 mg	Quantity cleared by hand.	Cost.	Rate.	Quantity cleared by hand.	Cost.	Rate.	Quantity cleared by hand.	Cost.	Rate.	
79.1	2	3	4	5	6	7	8	9	10	
m Main and Patna Canals	C. feet. 5,495,278	Rs. 23,377	Rs. A. P.	C. fcet.	Rs. 1,917	Rs. A. P.	C. feet.	Rs. 2,858	Rs. A. 1	

The Superintending Engineer writes:—

"The Eastern Main and Patna Canals were closed from the 25th of April until the 11th June 1896. During the closure the base of the canal near the head, where it had been reduced in the previous year to 100 feet, was still further reduced to about 80 feet by the construction of a berm on the left bank. The effect appeared to be satisfactory. There was, however, somewhat more deposit on the head of the canal than in the previous year, but no dredgers were worked at all in the first reach, and there was no difficulty whatever in passing the full discharge into the canal.

The work done by hand in the Eastern Main Canal was the construction of the berm for reducing the bed width of the canal. This will not be required in future.

There is a large increase in the dredging rate; this is due to the small amount of work done, and to the fact that charges for establishment are incurred when the dredgers are not working at all. The dredging work was done entirely by Fouracres' dredgers."

The Main Western Canal was closed from 26th March to 6th April 1896, but no silt clearance by hand was carried out between the Head and the Regulator, except that Rs. 324 was spent almost entirely on silt clearance at site of the slip at Dehri.

In the Arrah Division silt clearance by hand to the extent of 1,019,222 c. feet costing Rs. 2,204 was executed during the year. Of this, 268,677 c. feet was in the main canal, and the remainder in the distributaries, where the deposits were larger than usual.

In the Buxar Division during the closure the following silt clearances were effected by hand:-

						C. ft.
In the Main W						288,594
Cleaning chann	els above a	and below lo	cks			169,807
Other places	***		•••	•••	•••	48,680
				Total		507,081

And in the distributaries during the year 500,426 c. feet of silt were excavated, but most of this was done, not for the purpose of silt clearance, but with the object of strengthening the banks of the distributaries.

107. The following figures give the cost of weed clearing for the last five

years:-

WEEL

Division.	1892-93.	1893-94.	1894-95.	1895-96.	1896-97.
1	2	3	4	5	6
Eastern Sone Arrah Dehri Workshop Buxar	 Rs. 366 466 1,435 1,583	Rs. 584 1,391 1,656 1,134	Rs. 638 2,273 179	Rs. 4 346 1,748 123	Rs. 3 108 1,218 451
Total	 3,850	4,765	3,090	2,221	1,780

BIES.

MILEAGE RATES OF RATES OF AND CANALS AND AND TO THE FOLLOwing statement compares the cost of repairs to main canals and distributaries per mile, during the year, with the cost in the two previous 108. The following statement compares the cost of repairs to main canals DISTRIBUTA- years :-

		1894	-95.	1895	-96.	1896-97.		
Canal.	Division.	Number of miles.	Number Cost of miles.		Cost per mile.	Number of miles.	Cost per mile	
1	2	3	4	5	6	7	8	
45	*	No.	Rs.	No.	Rs.	No.	Rs.	
Eastern Main Canal Western ditto { Buxar Canal Patna do Arrah do Dumraon Branch Behea ditto Chowsa ditto Gurrah Chowbey Branch Distributaries	Buyar	9 12½ 45¼ 79 65⅓ 40¼ 81 89⅓ 38 470 408¼	4,163 4,973 181 282 231 818 132 253 98 89 35 29 25	71 9 121 451 451 79 651 401 31 391 38 470 409 3501	910 1,382 160 203 152 216 114 190 98 76 32 25 21	71 9 123 451 79 653 404 31 394 88 470 409 3501	625 1,721 267 230 167 279 117 119 135 122 38 36	

109. The number of trees, classified according to size, in the plantations on the canals in each division, is shown below:-

			1895	-96.			1896-97.				
DIVISIONS.		Trees over 12 feet in height.	Saplings be- tween 4 and 12 feet.	Seedlings under 4 feet,	Total,	Trees over 12 feet in height.	Saplings be- tween 4 and 12 feet,	Seedlings under 4 feet.	Total.	Inercase.	Decrease.
1	1	2	3	4		6	7	8	0	10	11
Eastern Sone Arrah Dehri Workshops Buxar		No. 101,515 66,112 49,788 25,671	No. 30,512 18,156 7,798 9,217	No. 41,363 22,260 8,372 16,756	No. 173,390 106,528 65,958 51,644	No. 102,425 64,440 49,563 26,188	No. 28,397 10,389 6,520 9,372	No. 38,644 14,108 6,506 11,495	No. 169,466 88,987 62,589 47,955	No.	No. 3,924 17,591 3,368 4,586
Total		243,086	65,683	88,751	397,520	242,616	54,678	70,753	368,047		29,473

The decrease is attributed to the great drought during the year, on account of which many trees, especially young ones died. Some trees were used for firewood in the dredgers,

The financial results of the year from plantations are expressed in the following table:-

Division.	Receipts.	Expenditure
- 10 1 1 - 1 - 1	2	3
and I	Rs.	Rs.
Eastern Sone	654	712
Arrah	1,490	1,643
Dehri Work- shops.	520	1,664
Buxar	294	1,077
Total	2,958	5,096

110. A sum of Rs. 1,347 was realized during the year from the leasing of mills, against Rs. 1,180 in 1895-96. The expenditure on their up-keep was Rs. 283, against Rs. 269.

The increase in receipts is due to the rent received for the Nasriganj turbine, which is now leased for the whole year.

MILLS.

CALCUTTA AND EASTERN CANALS.

111. The Capital and Revenue Accounts of these canals are given

1.-CAPITAL ACCOUNT.

CAPITAL ACCOUNT.

HEADS OF ACCOUNT.	Outlay during 1896-97.	Outlay to end of 1896-97.
1	2	3
Less—Receipts on capital account	Rs. 4,54,398	Rs. 59,30,004 54,467
집 사람이 많은 이 집 이 사람들이 되었다면 하면 하셨다면 그녀를 하셨다면 하면 하게 하는 사람이 없다.	4,54,398	58,75,537
Indirect charges	14,577	79,791

The capital expenditure of the year was incurred on the work of canalizing the Bhangore khal, for which an estimate amounting to Rs. 10,84.513 was sanctioned in 1895. The amount expended during the year, including establishment and tools and plant, was Rs. 4,54,398, and the total expenditure on the work up to 31st March 1897 was Rs. 5,90,041.

The Superintending Engineer thus describes the difficulties attending the

construction of the Bamonghatta lock :-

"Owing to a large number of springs having been met with at about 5 feet below ground level during the excavation for the foundation of the lock at Bamonghatta the original site bad to be abandoned, and a new one selected lower down the Bidhydaree closer to its banks. The excavation at this site was nearly taken down to full level when a large spring burst out in the bed, which was quickly followed by several others. The earth got too soft and wet to build upon, and it therefore became absolutely necessary to sink wells, but as considerable difficulty was experienced in sinking them, it was determined to abandon this site also. By going further away from the river bank a good foundation of blue clay was found both for the inner and other locks, which enabled the work to be carried out very quickly. The inner bay of the Kulti lock was completed by the end of Merch, but a good deal of difficulty was experienced in building the river side drop wall of the outer bay. This lock has since been completed and the work in the currely and drainers alvice is also well advended. since been completed, and the work in the supply and drainage sluice is also well advanced."

Very good progress was also made with the remodelling of the canal between the two lock sites.

2.—REVENUE ACCOUNT—(Actuals).

REVENUE

	EXPENDIT	URE-		RECEIP	Ts-
de procession of the	During 1895-96.	During 1896-97.	80	During 1895-96.	During 1896-97
1	2	3	4	5	6
Direct Charges. I.—Works, maintenance and repairs. II.—Revenue management. Total direct charges	Rs. 2,39,670 40,966	Rs. 1,87,776 40,276	Miscellaneous Total	Rs. 4,34,275 21,228 4,55,503	Rs. 4,26,425 13,639 4,40,064
Indirect charges Total working expenses. Profit	2,80,636 11,004 2,91,640 1,63,694	2,707 2 30,759 2,09,179		259	126
Total	4,55,244	4,39,938	Net total receipts	4,55,244	4,39,938

Nors.—The details by heads of exponditure for the year 1896-97, and nine preceding years, will be found in the table given in paragraph 112 following. wir jass reall old act bevorer som or

FINANCIAL RESULTS.

112. The following is a statement of the receipts, working expenses, and net revenue of the canals, for each of the last ten years:—

	1887-88.	1888-89.	1889-90.	1890-91.	1891-92.	1892-93.	1893-94.	1894-95.	1895-96.	1896-97.
1	2	3	4	.5	6	7	8	9	10	11
RECEIPTS.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Navigation Miscellaneous	5,74,766 5,168	5,69,920 5,224	4,88,309 7,312	5,19,263 5,883	5,15,125 10,218	4,64,716 15,528	4,07,695 13,129	4,30,769 12,688	4,34,275 21,228	4,26,425 13,639
Total Less—Refunds of revenue	5,79,934	5,75,144 19	4,95,621 78	5,25,146 61	5,25,343 124	4,80,244 130	4,20,824 283	4,43,457 454	4,55,503 259	4,40,064
Net total receipts	5,79,934	5,75,125	4,95,543	5,25,085	5,25,219	4,80,114	4,20,541	4,43,003	4,55,244	4,39,938
WORKING EXPENSES.										
DIRECT CHARGES.										
1 Works, Maintenance, and Repairs.										
Works (extensions and improvements) Maintenance and repairs	1,478 1,04,527	4,573 1,63,656	1,244 1,65,315	36,676 1,49,872	36,289 1,72,457	()28,498 1,65,223	53 1,64,943	1,766 1,64,876	13,239 1,68,477	49,050 1,31,650
Establishment, including direction and accounts Tools and plant	49,248 18,139	46,981 29,054	50,618 13,510	64,041 20,691	65,757 12,541	49,754 13,207	54,856 14,745	55,769 13,958	37,637 20,317	(-)20,94 28,00
Total	1,73,892	2,44,264	2,30,687	2,71,280	2,87,044	1,99,686	2,34,597	2,36,369	2,39,670	1,87,77
										1000
II.—Revenue Management. Navigation Establishment	38,920	37,684	36,281	38,343	41,359	39,935	39,344	39,553	40,966	40,27
Total direct charges	2,12,312	2.81,948	2,66,968	3,09,623	3,28,403	2,39,621	2,73,941	2,75,922	2,80,636	2,28,05
					1.00					
INDIRECT CHARGES.								Links		
Capitalization of abatement of land revenue Leave and pension allowances	12,344	11,853	12,165	14,334	14,996	12,556	13,188	13,345	11,004	2,707
Total indirect charges	12,344	11,853	12,165	14,334	14,996	12,556	13,188	13,345	11,004	2,707
Total working expenses	2,24,656	2,93,801	2,79,133	3,23,957	3,43,399	2,52,17	2,87,129	2,89,267	2,91,640	2,30,750
Net revenue	3,55,278	2,81,324	2,16,410	2,01,128	1,81,820	2,97,98	1,33,412	1,53,736	63,604	2,09,17

Under extensions and improvement the following works were executed during the year:—

	Rs.
Additions and alteration to the Inspection Bungalow at Khulna to be used as a store and wreck godown	355
Acquisition of land at Panagua for a shed for chaukidars employed on Kaorapukhur khal Gauge observations of the Kumar and Madhumati rivers	5 400
Improvement of the Bhil route connecting Khulna with Madaripur	9,851
Silt clearance, Assasuni khal Silt clearance of Cut No. 2 in Assasuni khal	22,868 15,580
Total	49,059

The work of silt clearance in the Assasuni khal and Cut No. 2 was sanctioned by Government as test work, in order to give employment to the famine-stricken people in the Satkhira subdivision of the Khulna district.

The works were carried out by local labour.

The total expenditure for improving the Bhil route to Madaripur amounts to Rs. 22,860. This route now affords every facility of communication for steamers.

The percentage of the net revenue on the capital outlay is shown below for ten years:—

YEAR.		CAPITAL OUT	TLAY (DIRECT)—	RECEIPTS A	Percentage of		
		During the year.	To end of the year.	Gross revenue.	Charges (direct and indirect).	Net revenue.	capital outlay to end of year
1		2	9	4	6	6	7
1887-88 1888-89 1889-90 1890-91 1891-92 1892-93 1893-94 1894-95 1895-96 1896-97	=======================================	Rs. 15,842 49,369 (—)281 5,693 (—)10,327 74,279 (—)403 1,076 1,27,831 4,68,975	Rs. 52,89,116 52,88,485 52,88,204 52,93,897 52,83,570 53,57,446 53,58,522 54,86,353 59,56,328	Rs. 5,79,934 5,75,125 4,95,543 5,25,085 5,25,219 4,80,114 4,20,541 4,43,003 4,55,244 4,39,938	Rs. 2,24,656 2,93,801 2,79,138 3,23,957 3,43,399 2,52,177 2,87,129 2,89,267 2,91,640 2,30,759	Rs. \$,55,278 2,81,324 2,16,410 2,01,128 1,81,820 2,27,937 1,53,3412 1,63,604 2,09,179	6.7 5.9 4.1 3.8 3.4 4.2 2.5 2.8 2.9 3.5

The total receipts amounted to Rs. 4,39,938, as compared with Rs. 4,55,244 in the previous year, showing a decrease of Rs. 15,306. The working expenses were reduced from Rs. 2,91,640 to Rs. 2,30,759. The net revenue was Rs. 2,09,179 against Rs. 1,63,604 in 1895-96, but the increase is explained to be entirely due to the way in which the establishment charges have been apportioned between the works under Capital and Maintenance, the whole cost of the establishment having been charged against the work of canalizing the Bhangore khal. The result of the year's working may, on the whole, be considered satisfactory. The number of steamers and flats, which used the canals during the year, was 349 against 312 in the preceding year.

These are independent of the vessels which use the Sundarbans route; the

These are independent of the vessels which use the Sundarbans route; the number which passed through this route during the year was 1,336 against 1,482 in 1895-96, and 1,385 in 1894-95. The flats and steamers pay a nominal toll of Rs. 5 for each trip.

113. The lengths of channels open for navigation remained the same as LENGTHS OF CANALS.

			Miles.		Miles.
(1)	Calcutta and New Cut Canal Tolly's Nala, including 20 miles of Kaorapukhur khal		•••	10
'	2)	Tony s Ivaia, including 20 lines of Kaorapukhur khai	100		37
(3)	Eastern Canals { Inner boat route Outer ditto	189 127		
			-		316
	4)	Steamer route			350
(5)	Bhil route between Kumar and Madhumati rivers			
		connecting Khulna with Madaripur			24
		Total Calcutta and Eastern Canals			737

114. The following statement shows the collections made during the year NAVIGATION. by the Collector and Supervisor of the Canals, and by the Executive Engineer, respectively:—

	Num-		Collection	s by Coll	SCTOR AND	SUPBEVISOR.		Collec- TIONS BY EXECUTIVE ENGINEER.	GRAND
CANALS.	ber of boats and rafts.	Tolls from boats and rafts.	Demurrage.	Ferry tolls.	Tolls from steamers and flats.	Rents of buildings, fishery rent and other mis- cellaneous receipts.	Total.	Rents of buildings, lands, and other mis- cellaneous receipts.	TOTAL, GROSS BEVENUE.
1	2	3	(m) 1 44 h	5	6	7	8	9	10
Calcutta and Eastern Canals. Tolly's Nala	No. 75,228 58,556	Rs. 3,25,058 79,888	Rs. 7,201	Rs. 3,845 1,622	Rs. 6,680	Rs. 6,257	Rs. 3,48,541 83,284	Rs. } 8,230	Rs. 4,40,064
Total 1896-97	133,784	4,04,946	8,826	4,967	6,680	6,406	4,31,825	8,239	4,40,004
Total 1895-96	134,173	4,15,123	5,807	4,570	7,410	7,200	4,40,110	15,393	4,55,503

The tolls from boats and rafts, which constitute the chief source of revenue from these canals, amounted, during the year, to Rs. 4,04,946 against Rs. 4,15,123 of the previous year, the decrease being Rs. 10,177.

The Superintending Engineer writes:—

"Notwithstanding this decrease the collections must be considered satisfactory, when the failure of the rice crop in the eastern district is taken into account. On rice alone the loss of tolls amounted to Rs. 40,610, as compared with the previous year. If the rice crop had been better, the gross collection would have exceeded those of many previous years."

The following are the principal articles of traffic on the Circular Canal and Tolly's Nala for 1896-97, the increase or decrease in collections and maundage being shown against each :-

Articles.	+ or - in maunds.	+ or - in collection.	REMARKS.	
1	2	3	4	
Rice	22,72,075	- 40,610	See a see	
Jute	2,13,634	- 1,119	e de la companya de La companya de la co	
Firewood .	. + 2,73,800	+ 5,559		
Spices	30,282	- 123		
Empty Boats .		+ 2,977		
Fish	. + 14,729	+ 1,666		
Salt	2,82,630	- 1,931		
Lime	. + 1,29,930	+ 3,677		
Coal * .	. + 11,990	+ 753		
Kerosine Oil .	34,325	- 341		

115. The table below classifies the boats which used the canals during the last two years:-

		NUMBER AND CLASS OF BOATS EXCLUSIVE OF RAFTS.								
YBAR.	Canal.	Up to 100 maunds.	Between 100 and 1,000 maunds.	Between 1,000 and 2,500 maunds.	Between 2,500 and 5,000 maunds.	Over 5,000 maunds.	Total.			
1	2	3	4	- 5	6	7	8			
		6.0			- class		100			
1895-96	Calcutta and Eastern	43,960	29,502	2,682	165	45	76,354			
1899-905	Canals. Tolly's Nala	24,006	12,756	60			36,822			
	Total 1895-96	67,966	42,258	2,742	165	45	1,13,176			
(Calcutta and Eastern	44,705	26,894	3,272	231	40	75,142			
1896-97	Canals. Tolly's Nala	20,995	12,740	98			33,833			
	Total 1896-97	65,700	39,634	3,370	231	40	1,08,971			

There was a decrease of 4,201 in the total number of boats which entered

the canals during the year. The number of small boats, or saltis, which entered Tolly's Nala from Kacrapookhar and paid tolls at Russa, increased from 20,854 in 1895-96 to 24,650 in 1896-97. Including these saltis, the total number of boats was 133,625 against 134,030 in the previous year. The tonnage of boats, as determined by canal measurement, and the estimated weight and value of the cargo, are shown in the comparative statement below:—

YEAR.	Canal.	Number of boats, including passenger and empty boats, but excluding rafts.	Tonnage of boats by canal measure- ment.	Weight of cargo.	Value of cargo.	Tollage, including demurrage.	Percentage of toll on value of cargo.
1	2	3	4	5	6	7	8
1896-97 {	Calcutta and Eastern Canals. Tolly's Nala	No. 75,142 58,483	Tons. 766,420 269,476	Tons. 543,861 177,819	Rs. 4,46,11,025 1,19,60,196	Rs. 3,38,774 81,377	
e Gualett Ne. g. 275	Total 1896-97	133,625	1,035,896	721,683	5,65,71,221	4,20,151	0.74
1895-96 {	Calcutta and Eastern Canals. Tolly's Nala	76,3 54 57 ,676	777,935 258,862	590,808 176,23 2	4,64,74,817 1,08,24,068	3,4°,015 87.019	
	Total 1895-95	134,030	1,036,797	767,040	5,72,98,885	4,28,034	074

The decrease in the tonnage of boats, and weight and value of cargo, was due to less traffic in rice, jute and salt.

116. The number of missing tickets in each of the last ten years is shown below:—

MISSING

YEAR.			No.	YEAR.			No.	
1887-88			677	1892-93	•••		169	
1888-89			329	1893-94		***	252	
1889-90	•••		238	1894-95			170	
1890-91			212	1895-96		100	155	
1891-92	***	***	210	1896-97	***		86	

117. The following statement compares the cost of the Revenue establishment for each of the last five years:—

REVENUM ESTABLISM-MENT.

Particulars.	1892-93.	1893-94.	1894-95.	1895-96.	1896-97.
1	2	3	4	5	6
Salary and commission of Supervisor Salary of Canal Inspectors Supervisor's office establishment Canal police Supervisor's steam-launch establishment Inspector's boat establishment	Rs. 10,529 5,013 6,076 2,059 696	Rs. 9,780 4,545 6,879 2,058 691	Rs. 9,946 4,882 6,931 2,067	Rs. 10,481 5,367 6,847 2,046 693	Rs. 8,971 5,283 7,191 2,146
Dhappa water-boat establishment Dafadars Fravelling allowances Contingencies Coll-collecting establishment	166 828 71 2,106 12,391	168 747 113 1,877 12,486**	168 828 42 1,624 12,232*	167 829 151 1,675 12,710*	165 872 19 1,684 13,214*
Total cost of establishment	39,935	39,344	39,405	40,966	40,276

Includes salaries of darogas, clerks, cashiers, kootnavises, koyals, toll peons, and dinghi crews.

The decrease in the expenditure is thus explained by the Superintending Engineer:—

"The principal saving is under the sub-head 'Salary of Supervisor.' The Supervisor is on furlough, and his locum tenens draws his pay as an Honorary Assistant Engineer with an allowance of Rs. 100 per mensem for doing the revenue collection. Only this latter allowance should have been charged against Revenue Establishment, the balance of Mr. Fox's

salary being charged to the maintenance grant of the canals. Had this been done, there would have been a large saving under the sub-head 'Salary of Supervisor.'

The increase under the other sub-heads is due to the additional allowance sancticned for menials on account of high price of food."

MISCELLA-

MBNTS,

MAINTBNANCE

The miscellaneous receipts during the year amounted to Rs. 13,639 against Rs. 21,228 in 1895-96, showing a decrease of Rs. 7,589. This large falling off is due to the small number of wrecks which were removed from the canals during the year.

The expenditure under Extensions and Improvements was Rs. 49,059 against Rs. 13,239 in the previous year. The increase is due to silt clearance of the Assasuni khal and to cut No. 2 being carried out as test works to give employment to the villagers in the distressed areas of the Khulna district.

The statement below shows the distribution of the maintenance charges under the several sub-heads, as compared with the previous year:-

CANALS.	Loeks.	Masonry bridges.	Roads.	Baildings.	Plantations.	Dredging.	Channel and bank.	Tow-path.	Rustic bridges.	Steam-launches,	Miscellaneous.	Drainage.	Torat
1	2	3	*4	5	6	7	8	9	10	11	12	13	14
Tolly's Nala \(\begin{array}{l} 189 \\ 189 \\ 189 \\ Sundarbans Stea. \(\ext{189} \end{array} \)	Rs. 3,273 3,160 5.96 5.96 5.96 6.97 6.97		Rs. 15,246 15,207 223 218	Rs. 684 2,076 99 214 1,830 2,602	Rs. 473 480 583 679	Rs. 15,354 20,379 2,604 3,563	Rs. 5,928 5,631 527 8,211 28,389 1,600	Rs. 1,139 1,273 903 771 21,534 12,141	Rs. 401 456 307 351 23,732 21,848	Rs. 5,076 4,069	Rs. 11,541 11,781 292 313 3,803 3,462 15,777 10,830	Rs. 83 85	Ra. 63,85 67,98 3,80 3,80 3,40 97,449 88,25
Total {189	5-96 3,273 6-97 3,160		15,469 15,425	2,613 4,892	1,056 1,159	17,958 23,942	34,839 10,442	23,576 14,185	27,440 22,655	5,076 4,069	31,413 26,386	83 85	1,68,47

The maintenance charges show a decrease of Rs. 36,821.

On the Sundarbans steamer route Rs. 3,462 were expended in working the heave-up boat for removing snag, and also in an attempt to blow up the

flat Howrah in the channel creek.

121. The work done by the dredgers and the cost, including that of

delivering the mud, are shown below :-

	Quantity dredged.	Cost.	Rate per 1,000 cubic feet.
1 38 cm	2	3	4.
Steam dredger Victoria Fouracres' dredger Marchant's dredger Hydraulic dredger Clinker	C. ft. 61,500 602,400 389,400 2,043,500	Rs. 1,429 5,482 3,563 13,468	Rs. A. P. 28 3 9 9 1 7 9 2 5 6 9 5

The actual rates of dredging, excluding the cost of delivering the mud, the cost of repairs, and the interest on original cost of dredging plant, were as follows:-

Rs. A. P.
17 13 1
3 10 11
0 13 0
2 5 3
Per 1,000 cubic feet. Steam dredger Victoria Fouracres' dredger Marchant's hand dredger Hydraulic dredger Clinker 2 5 ...

The dredger Victoria did practically no work during the year, being under repairs; the Fouracres' dredger worked for 236 days; the Marchant's dredger for 287 days; and the Clinker for 273 days.

122. The state of the plantations for the last two years is shown below: - PLANTATIONS.

YEAR.	Trees over 12 feet.	Saplings from 4 to 12 feet.	Seedlings below 4 feet.	Total.
1	2	8	4	5
1000 07	No. 3,656 3,644	No. 1,146 1,069	No. 554 600	No. 5,356 5,313

The expenditure during the year was Rs. 1,160, against Rs. 1,056 in 1895-96. There were no receipts.

123. The expenditure on the steamer route, and the receipts from steamers and flats using it, are shown below for each of the last ten years:—

STRAMER ROUTE.

		Ex	PENDITURE-		w 15 milita		
YEARS.	Receipts.	On capital account.	On revenue account.	Total.	Net revenue.	Remarks.	
1	2	3	4	5	6	7	
	Rs.	Rs.	Rs.	Rs.	Rs.	Aglancia)	
1887-88	4,445		1,864	1,864	2,581		
1888-89	4,670		5,352	5,352	(—)682		
1889-90	4,640		2,094	2,094	2,546		
1890-91	5,425		2,268	2,268	3,157		
1891-92	4,640		1,920	1,920	2,720		
1892-93	4,855	28,964	2,094	31,058	(—) 2 6, 1 03		
1893-94	5,495	627	2,094	2,721	2,774		
1894-95	6,925	754	2, 94	2,848	4,077		
1895-96	7,410		3,803	3,803	3,607		
1896-97	6,680		3,462	3,462	3,218		
Total	55,285	30,345	27,045	57,390	()2,105		

There was a decrease of Rs. 730 in the receipts, but the expenditure was reduced by Rs. 341; the net revenue being Rs. 3,218, against Rs. 3,607 in the previous year.

The Superintending Engineer writes:-

"It is evident that the tolls realized on the flats and steamers running through the Sundarbans do not pay for the maintenance of this route, which is simply a succession of large tidal rivers, and which cost nothing to maintain, except at one place called the Angeria Creek connecting the Dansidhi river near Jhalukati with the Kochen river at Cowkhali. The tides meet in the centre of this creek, and for a distance of two to three miles the channel becomes shallow and narrow, so that it is very difficult for the large Assam steamers and flats to pass, and in fact they can only do so at high water. An alternative route cannot be found, so it is necessary every fourth year to incur a large expenditure in deepening and widening the creek.

The question of improving this portion of the steamer route has again been brought up by the steamer companies, and a report will shortly be submitted on it for the orders of

Government."

ORISSA COAST CANAL.

124. The capital and revenue accounts of this canal are given below:—

CAPITAL ACCOUNT.

HEADS OF ACCOUNT.	Outlay during 1896-97.	Outlay to end of 1896-97.	
A to predent a salar was a few of an arms.	40	2	3
Direct charges		Rs. 20,273	Rs. 43 95,231 3,293
Total direct charges		20,273	43,91,938
Indirect charges		409	1,06,352

Under the capital account there was an expenditure of Rs. 12,697 during the year on the works detailed below:—

Remodelling escapes in Ranges IVA a Opening a new escape in 106th mile	nd V and	remodelling	escape in	Rs. 2,797
108th mile				4,086
New bungalow at Erum			•••	1,238
Dock and tank at Panchpali		•••		149
Dredging uncut portions in Range V				4,427
Q. CDG		Total		12,697

The remodelling of escapes in Ranges IVA and V were completed at a total cost of Rs. 45,752. The opening of a new escape in the 106th mile and the closing of an old escape in the 108th mile were also completed. Dredging was continued in Range V, and 451,000 c. ft. of earth were removed at a cost of Rs. 4,427. The construction of the new bungalow at Erum was finished during the year.

2.—REVENUE ACCOUNT—(Actual).

REVENUE ACCOUNT.

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	EXPENI	DITURE-	Bernaga i distributioni	RECEIPTS-		
Particulars.	During: 1895-96.	During 1896-67.	PARTICULARS.	During 1895-96.	During 1896-97.	
. 1	2	8	4	5	6	
Direct charges. I.—Maintenance and repairs II.—Revenue management	Rs. 60,060 6,937	Rs. 77,061	Water-rates Navigation Miscellaneous	Rs 85,773	Rs 83,856	
Total direct charges	66,997	84,067 3,716	Total	88,353	86,259	
Cotal working expenses Net revenue	70,119 18,209	87,783 (—) 1,642	Less—Refunds of revenue	25	118	
Total	88,328	86,141	Net total receipts	88,328	86,141	

Note.—The details by heads of expenditure for the year 1896-97 and seven preceding years will be found in the table given in paragraph 125 following.

The financial result of the year's operations was not very satisfactory. There was a decrease of Rs. 2,187 in the receipts, and the working expenses exceeded those of the previous year by Rs. 17,664.

The falling off in the receipts is attributed to the closure of the canal. The net revenue was Rs. (—)1,642. The large increase in the maintenance charges was entirely due to the heavy repairs which had to be done to the Bhaitghur lock.

125. The receipts on the Revenue account, and working expenses of the FINANCIAL canal for the last ten years, are shown in the following statement:—

1887-88. 1888-89. 1889-90. 1890-91. 1891-92 1892-93. 1893-94. 1894-95. 1895-96. 1896-97. 1 2 3 5 6 7 8 Q. 10 Rs. Rs. Rs. Rs. Rs. Rs. Rs. Rs. RECEIPTS. rates 61 001 250 52,828 65,047 63,724 64,220 60.051 95,283 55.832 64.094 85,773 83,856 1,026 1,381 1.563 1,410 2,072 9,149 2,477 1.937 2,580 53,854 Total 66,428 65,348 65,630 62,123 64,981 97,710 66,031 88,353 86,259 Refunds of re-17 254 15 66 44 47 1,143 91 25 118 53,837 total receipts ... 66,174 65,333 65,586 62,057 64,934 96,567 65,940 88.328 86,141 RKING EX-PENSES. CT CHARGES. ks, Maintenance d Repairs. AULT THE (extensions and 195 ements). 53,277 42.636 50,528 42,312 48,598 45,490 58:234 52.548 40,054 53.525 hment, includand direction 14.289 ... 11,377 926 15,452 17,100 17,266 19.706 21,552 15,361 19,536 d plant 8.743 14,462 10,513 9.794 3.464 6.663 7.317 3.999 4,000 4,000 Total ... 60,060 76:309 68,445 61,967 67,558 69.162 87,163 76,448 69.419 77.063 nue Managele a vi establish-6,937 4.559 6,123 6,044 6,208 7,029 6,898 6,134 6,855 7,006 et charges ... 80,868 74,568 68,011 73,760 83,346 66,997 84,067 75,296 76,275 94,132 CHARGES. abatement revenue ***** pension al-975 2,639 3.716 2,450 3.032 3,253 3,377 4,001 3,725 3,122 t charges ... 2.639 3.122 3,716 2,450 975 3.032 3,253 3,377 4.001 3.725 ing expenses 87,783 83,507 98,133 87.071 70,119 77,018 68,986 76,798 78,549 79,652 -)29,670 18,209 (-) 1,642 -)10,844 -)11,212 -)14,718 -)1,566 (+)21,131)16,492

Regarding the traffic on the canal the Superintending Engineer writes :-

"There was a falling off under all heads except in the number of boats. The gross traffic of the year was 205,695, against 206,797 tons of the previous year. The number of boats increased from 18,774 in 1895-96 to 20,016 during the year under review, but the tollage decreased from Rs. 85,773 in 1895-96 to Rs. 83,856 in 1896-97. It is difficult to explain the increase in the number of boats and the decrease of tollage; but it was probably owing to the fact that, on account of the great demand for rice in Calcutta, boats came up in numbers in the hope of getting a cargo, but had in many cases to return empty. Figures, taken at Jamkenda, show that, during the year, seventy-three boats went out to Panchpali for

rice, but they had to return empty, as they could not get a cargo.

The receipts from the Calcutta Steam Navigation Company amounted to Rs. 11,337, against Rs. 13,894 in 1895-96. Out of the former amount a sum of Rs. 1,234 was remitted, being the difference between local and through rate of tolls in the Orissa Coast Corel between Government and Nelland on such days as they used the small when the Training of the carel when the constant of the carel when the carel Canal, between Gewankhali and Nalkul, on such days as they used the canal when the Kalinagar and Bhaitghur locks were closed during the year. The India General Steam Navigation Company paid Rs. 8,298, and Messrs. McNeil & Co., Rs. 4,693, against Rs 10,290 and Rs. 3,591 of the previous year.

There was a great decrease in the number of passengers carried on the canal, viz., 38,548, against 59,603 of the previous year, which is attributable partly to the closure of the Bhaitghur lock, and partly to a more strict supervision by Government of the number of passengers carried in each steamer.

The steamers stopped running at night altogether for some time, as the number of passengers the rules allow for night trips is much less than for day trips.

On the Balliaghye drain the tolls realized during the year were Rs. 6,053, as compared

with Rs 6,605 of the year before."

The amount of tolls, assessed from Kansbans and Surpai toll stations, shows a decided improvement. It has been suggested that it would be desirable to abolish the Kansbans toll station and open a new station at Chowmuk, as a check on the Surpai station: this matter is receiving the Superintending Engineer's attention. There was a heavy export trade in rice, and also a large increase in the export of timber.

126. The following table compares the traffic of the year with that of

1895-96:-

ORISSA CO CANAL	Number of boats.*	Tonnage of boats.	Value of cargo, including rafts.	Tolls.
1	2	3	4	5
1895-96 1896-97	 No. 18,774 20,016	Tons. 206,797 205,695	Rs. 40,02,498 43,96,918	Rs. 85,773 83,856

*Includes passenger and empty boats.

RAINVALL,

FLOODS.

The length of the canal from Bhaitghur to Charbattia remained

the same as last year, i.e., 102 miles, including 4½ miles of river-crossing.

The Bhaitghur lock was closed for repairs from the 8th November 1896 to 10th February 1897. The Balliaghye branch drain was also closed to traffic for silt clearance from the 23rd February, and the work was still in progress

at the end of March. The rainfall registered at Balasore was 72.10 inches, compared with 64.84 inches in 1895-96. The average of the previous five years was 67.24

inches. The higest flood levels, recorded on the various rivers crossed by the Orissa Coast Canal, are recorded in the following table:-

		1895-96.		1896-97.		HIGHEST ON	RECORD.	REMARKS.	
NAME OF RIVER.	Locality.	Date.	Reading.	Date,	Reading.	Date.	Reading.		
11	2	3	4	В	6	7	8	9	
	Torobone	20th September 1895. 22nd August 1895	113:40	24th July 1896 25th ,, ,	11510	June 1863 Not known	118.00	Without date of Mr. Vertann	
		20th September 1805 3rd October 1805		28th , , , , , , , , , , , , , , , , , , ,	115-20	22nd September 1895. Not known		Without date of Mr. Vertann	

There were high floods during the year in the Subarnarekha and Mutai rivers, which caused a certain amount of damage. The highest monsoon levels in the various ranges were as follows :-

Range III = 117.00 on 25th July 1896.

"IVA = 116.40 on 24th = 114.50 on 24th ...
"V ... = 113.30 on 27th = 113.30 on 27th ...

130. The miscelaneous receipts during the last five years are shown MISCELLA. NEOUS

RECEIPTS.

recrega

111199

1891-92. 1892-93. 1893-94. 1894-95. 1895-96. 1896-97. Rs. Rs. Rs. Rs. Rs. Rs. 2,072 9,149 2,477 1,937 2,580 2,403

131. The following table gives the results of the working of dredgers DREDGING AND SILT for the last two years :-

in the second	Provide and or a	dredged.	la ne	Cost of-	ynacet end Pousta end	RATE	PER 1,000) c. ft.
YFAR.	YFAR. Name of dredger.		Lifting by dredger.	Removing by mud punts.	Total.	Lifting.	Removing.	Total.
1 odd ar eac	2	3	4	7	6	7	8	9
1895-96	Marchant No. 1. Comus with 3 mud punts.	C. ft. 395,570 269,500	Rs. 1,455 978	Rs. 1,763 1,170	Rs. 3,218 2,148	Rs. A. P. 3 10 9 3 9 11		8 2 1
	Total	665,070	24,33	2,933	5,366	3 10 5	4 6 7	8 1 0
1896-97	Marchant No. 1 with mud punts. Comus Bruce No. 1 with mud punts.	372,500 277,960	1,736	1,627	8,363 2,520	4.66	4.36	9.02
kor on	Total	650,460	2,951	2,932	5,883	4.53	4 51	9.04

Dredger Marchant No. 1 worked in Range V, and Comus in Ranges III, IV, DEEDGER. and V.

About 400,000 c.ft. of silt were cleared from the canal side of the Bhait- SHIT CLEARghur lock at a cost of Rs. 2,329.

The state of the plantations for the last two years is shown in the Plantations. following statement:-

У ЕА	R.	Trees upwards of 12 feet in height.	Saplings from 4 to 12 feet in height.	Seedlings below 12 feet.	Total
1		2	. 8	4	5
1895-96 1896-97		2,564 1,649	5,437 6,254	6,644 6,231	14,645 14,134

The decrease is due to the fact that many seedlings died on account of the excessive heat. There were neither receipts nor expenditure under this head during the year.

SARAN CANALS.

CAPITAL ACCOUNT.

133. The Capital account of these canals has been closed. The Revenue account is given below:—

REVENUE ACCOUNT-(Actuals).

	EXPENI	OITURE-		RECE	HPTS.
Particulars.	During During 1895-96. 1896-97.		Particulars.	During 1895-96.	During 1896-97
1	2	3	4	5	6
Direct charges.	Rs.	Rs.		Rs.	Ŗs.
Maintenance and re-	1,293	11,628*	Water-rates Navigation Miscellaneous	1,139 411	53 1,251
[NDIRECT CHARGES	61	306	Total	1,550	1,304
Total working expenses	1,554	11,934	Less—Refunds of	75	370
Net revenue	121	(-)11,000	revenue.	The second	
Total	1,475	984	Net total receipts	1,475	934

Note.—The details by heads of expenditure for the year 1896-97 and nine preceding years will be found in the table given in paragraph 134 following.

• Includes Rs. 4,964, being the normal cost of clearing silt by famine labour in the Gandaki and Gangri feeders.

The receipts on Revenue account and working expenses of the Saran Canals for the last ten years are shown in the following statement:—

	1887-88.	1888-89.	1889-90.	1890-91.	1891-92.	1892-93,	1893-94.	1894-95.	1895-96.	1896-07.
1	2	3	4	5	. 6	7	. 8	9	10	11
RECEIPTS. Water-rates	Rs. 21,070	Rs. 20,415 399	Rs. 22,990	Rs. 36,823	Rs. 15,785	R#. 1,402 34	Rs. 6,764	Rs. 938 444	Rs. 1,139 411	Rs. "1,2
Total Less—Refunds of revenue	20,665	20,814	23,113	36,983	15,831	1,526	6,814 530	1,382 3,182	1,550 75	1,3
Net total receipts	20,665	20,814	23,113	36,983	15,831	1,526	6,284	(-) 1,800	1,475	
WORKING EXPENSES. Direct charges. Maintenance and repairs Establishment	400	23,976 10,248 673	24,900 12,423 901	26,454 10,500 380	9,021 3,710 (-) 193	9,617 3,772 213	4,111 1,739 112	1,037 447 (—) 5	856 437	9,4 2,1
Tools and plant Total direct charges	98 190	34,897	38,313	37,403	12,538	13,502	5,962	1,479	1,293	-
Indirect charges. Capitalization of abatement of land revenue	1 077	1,435	1,739	"i,478	519	598	243	63	61	
Leave and pension allowances	7 059	1,485	1,739	1,478	519	528	243	63	61	11,
Total indirect charges	00.000	36,332	40,052	38,881	13,057	14,030	6,205	1,542	1,354	(-)1
Total working expenses . Net revenue	/ 3 0 mga	(-) 15,518	(-) 16,939	(-) 1,808	2,774	() 12,504	79	() 3,342	191	1

135. There was no change in the lengths of the canals, which are given canals open and areas commanded and irrigated.

1895-96. in the following table:-

		g 2 (a)		1	1895-96,		Assess (1896-97.						
NAME OF CANAL,	Navigable canals.	Canals for irrigation only.	Distributaries.	Area protected from flood.	Area under command.	Area provided with dis-	Area irrigated.	Percentage of area irrigated to area provided with dis- tributaries.	Navigable canals.	Canals for irrigation only.	Distributaries,	Area protected from flood.	Area under command,	Area provided with distri-	Area irrigated.	Percentage of area irrigated to area provided with dis- tribularies.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
Saran Canals. Main canal or head cut Branch Canals.		Miles. 6'34]		Acres.		Acres.		[Miles. 6:34)		Acres.	_	Acres.	17
I.—Daha feeder II.—Gandaki III.—Dhanai IV.—Gangri		3:34 1:57 1:00 6:57	-		64,000	VI S.	Nil	1	-	3·34 1·57 1·00 6·57			64,000		4,080	
In addition to the above, the following are maintained:— I.—Thakraha Sota II.—Roopan Chap Sota		1*50 27·00		=		::	:	:	=	1.50						

The canals were opened for the rabi season on the basis of individual assessment, after it was seen that no one would come forward to pay the lump sum required for the opening of a sluice.

The only village channels, which exist on these canals, are those constructed by the proprietors of the Moniarah Concern in the year 1889; besides these, several cuts have been made from time to time.

Most of the cuts are in very bad repair, as they have not been in use for some years.

There were several small earthen dams made along the Daha and on the Gangri, but, as water could not be passed down the Gangri, they were not of

136. A new distributary from the Gangri was commenced in February DISTRIBUTARY. and was being constructed by famine labour. The proposed length is six miles, and it has been designed to irrigate 2,800 acres.

137. Three bunds were made during the year for the supply of water to the different canals; besides these, several were made at the mouth of the Roopan Chap Sota at Neenyapatti to increase the supply. At Sasamoosa at the end of the Daha feeder a bund was made to prevent the water from going down the Daha, as petitions had been sent in saying that there were springs in the Daha below that place, and the raiyats did not require water. This bund, however, was cut at night several times.

Several temporary bunds were also made along the Gangri and Dhanai, some without leave, including one at Tenthi by the Manager of the Arrowah

The average rainfall on the area under command is shown by seasons in the table below, for the last five years :-RAINFALL

	110 1100 1110	Jours			
	1892-93.	1893-94.	1894-95.	1895-96.	1896-97.
Kharif season (August, Se	Inches.	Inches.	Inches.	Inches.	Inches.
tember and October)	27.70	24.96	28.55	22.02	10.76
February)	2·29 49·19	1.08 49.95	2·62 51·28	0·50 43·42	0·99 28·94

The rainfall was very deficient; there was very little rain in September, and none in October, the result being an almost total failure of the rice crop.

139. The discharge of the river Gandak taken on the 17th May 1897

was 15,900 cubic feet per second at Siswa, with a gauge reading of 232 33.

140. There was a large demand for water in September and October IRRIGATION. owing to the total failure of the rains during those months, but, as no one came forward to pay the sum required for opening any of the sluices, they were kept closed. If they had been opened, it is doubtful whether a sufficient quantity of

water could have been passed down to do any good, owing to the conditions which exist at the head of the feeders.

The Executive Engineer remarks:-

"A large area of rice cannot be irrigated from the Saran canals under existing conditions, as, in the first place, only a comparatively small quantity of water can be passed down in September and October, when it is most urgently wanted; and secondly, if a supply could be given, there are no distributaries or village channels, except those constructed by the Moniarah Factory from the Daha. In the other three channels the only way water is made to pass into the rice chours, is by bunding across the channels and forcing the water through the natural channels, which are the drainage channels of the chours. Each chour has thus to wait its turn of supply, and when those above have been satisfied, they object to the water being passed down, as the drainage of their chours is impeded, and object to the water being passed down, as the drainage of their chours is impeded, and their low lands flooded.

"The Saran canals are not of much use for indigo irrigation or manufacture. It is only in very bad years like the one under review, when there is a failure of the rains, that they are needed. They are very seldom of use for manufacture, as not only is there a prejudice against the use of Gandak water, but also it is very seldom that the rains set in so late that the tanks become dry, or so low that irrigation by means of large pumps at very great expense has to be resorted to. Water for *rabi* irrigation can only be supplied to lands in the immediate vicinity of the banks of the canals, as the lifts are in many places very great. Far more would have been irrigated this year if water could have been sent down the Gangri and the Gandaki."

and the Gandaki."

The total area irrigated was 4,080 acres, of which 3,197 acres were rabinand 883 were indigo. The Barhoga Factory was the only one in which irrigation on any large scale was effected; 632 acres were irrigated by means of 6 large centrifugal pumps. The manager commenced pumping in November, and continued till the rain in December assured him of sufficient moisture.

The following table gives the areas of the different crops irrigated from

the Saran Canals during the year :-

1	Acres.			
	1			2
Indigo				883
Рорру		•••		255 2,915
Rabi	•••	•••		2,010
Other crops	•••			
		Total		4,080

The areas irrigated since 1881-82 are given below :-

	Area.						
and the second	1						
				Acres.			
1881-82				666			
1882-83				1,747			
1883-84		•••		21,122			
1884-85		•••		7,228			
1885-86	•	•••		4,565			
1886-87				2,146			
1887-88				4,218			
1888-89	100		•••	7,213			
1889-90				4,210			
1890-91	•••			2,226			
1891-92	•••	•••		5,965			
1892-93		•••		3,560			
1893-94				1,568			
1894-95	•••			Ni			
1895-96	•••	•••	•••	Ni			
1896-97			•••	4,080			

141. There were no floods of any importance during the year. The highest reading of the gauge at Siswa was 238.00, which occurred on the 10th August 1896.

142. The assessments, remissions, and collections are shown below:-

ASSESSMENTS AND COLLEG-TIONS.

FLOODS.

Year.	Assessment.	Remitted or written off.	Collections to end of March 1897.	Balance to be recovered to end of March 1897.
Action distribution of the control of	2	3	4	5
1896-97	Rs. 6,416	Rs. 120	Rs. 30	Rs. 6,266

Owing to the failure of supply in the Gangri and Gandaki during February and March for poppy irrigation, the Executive Engineer remitted eight annas of the rate. A sum of Rs. 120 was remitted on this account; all the khatianies were submitted to the Collector, by whom all the collections are to be made. Up to the end of March a sum of Rs. 30 was collected.

143. The expenditure on maintenance during the past five years is shown MAINTENANCE AND REPAIRS.

The state of the s	Miles.	1892-93.	1893-94.	1894-95.	1895-96.	1896-97
1 1	2	3	4	5	6	7
Repairs to head cut and river protective works Repairs to Daha feeder	6.34	Rs. 1,341 544	Rs. 1,766 499	Rs. 432 166	Rs. 459	Rs. 392
", to Gandaki feeder ", to Dhanai feeder ", to Gangri feeder ", to dams and channels	1·57 1·00 6·57	1,550 411 565 5,106	550 242 424 631	150 119 170	397	2,568
Total		9,517	4,112	1,037	856	4,453
Establishment Tools and plant (actual) Refund of revenue	 	3,772 213 	1,738 112 530	447 (—)5 3,182	437 ₇₅	2,185 26 370
Grand Total		13,502	6,492	4,661	1,368	7,034

The expenditure this year is very much in excess, as the canals were actually closed during the two previous years. The principal expenditure has been in clearing silt at the heads of the feeders, and keeping the mouth of the Roopanchap Sota open. Owing to the small quantity of water in the Sota, when orders arrived to open the canals, the dams across the Takraha Sota and Roopanchap Sota, which, in former years, cost a considerable sum of money, were constructed this year for Rs. 159 and Rs. 1,344.

144. All silt is cleared by hand. As dams had been made across the Danderse mouths of the feeders to keep silt out, there was not much silt in them. The largest silt clearance was made at Siswa between the dam across the feeder and the Sota, and in cutting a channel about three-fourth mile long at the mouth of the Roopanchap Sota near Nemyapatti to increase the supply.

The total amount of silt cleared was 470,446 cubic feet, costing Rs. 1,258.

Besides this, silt clearance was undertaken in the Gandak and Gangri by famine labour, as below:—

			Cubic feet.	Cost.
ALLON MINES	1		2	3
			C. ft.	Rs.
Gangri Gandaki Establishment Tools and plant		:	905,320 795,405	2,955 3,609 264 1,113
	Total		1,760,725	7,945

[·] Contingent charged only

PLANTATIONS. 145. The state of the plantations for the last two years is shown below:—

YEAR.		Trees over 12 feet.	Saplings between 4 and 12 feet.	Seed- lings under 4 feet.	Total.	
	1		2	3	4	5
1895-96 1896-97	:::		No. 9,303 9,989	No. 4,762 5,540	No. 5,723 7,458	No. 19,788 22,987

The expenditure on plantations was Rs. 77, against Rs. 35 in the preceding year.

MISCELLANE. 146. The miscellaneous receipts were Rs. 1,251, against Rs. 411 in the previous year.

NADIA RIVERS.

LENGTHS

147. The rivers comprised in this system are the Bhagirathi, Bhairabor RIVERS.

Jalangi, Mathabhanga, and part of the Hooghly, and their approximate lengths,
which remained the same as last year, are as follows:—

Bhagirathi		•••	145 miles to Nadia.
Bhairab-Jalan	gi	***	141 ditto.
Mathabhanga	•••		138 miles to junction of the Hooghly river.
Hooghly		•••	31 miles from Nadia to Chakdaha.
	Total	, 100 - 100	455 miles

148. No Capital account of expenditure is kept. The Revenue account for the last two years is given below:—

REVENUE ACCOUNT.

	EXPENI	DITURE—		RECE	IPTS-
Particulars.	During 1895-96.	During 1896-97.	Particulars.	During 1895-96.	During 1896-97.
1	2	. 3	4	5	6
DIRROT CHARGES.	Rs.	rds.		Rs.	Rs.
1.—Maintenance and	1,13,818	97,916	Navigation	1,19,981	93,392
II.—Revenue manage- ment.	23,582	24,373	Miscellaneous	124	82
Total direct charges	1,37,400	1,22,289	Total	1,20,105	93,474
INDIRECT CHARGES	8,881	8,529	Less-Refunds of	59	1.5.4
Total working expenses Net revenue	1,46,281 (—)26,235	1,30,818 (—)37,344	revenue.		
Total	1,20,046	93,474	Net total receipts	1,20,046	93,474

Norg. - The details by heads of expenditure for the year 1896-97 and nine preceding years will be found in the table given in paragraph 149 following.

149. The receipts on revenue account and working expenses, for the last ten years, are shown in the following table:—

FINANCIAL RESULTS.

	1887-89.	1888-89.	1889-90.	1890-91.	1891-92.	1892-93.	1893-94.	1894-95.	1895-96.	1896-97.
1	2	3	4	5	6	7	8	9	10	n
RECEIPTS.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Navigation Miscellaneous	1,98,318 357	1,91,791	1,85,983	2,00,508 136	1,92,718 247	1,65,380 158	1,71,166 86	1,41,419 279	1,19,981 124	93,393
Less—Refunds of revenue	1,98,675	1,91,888	1,86,043 220	2,00,644 162	1,92,965 228	1,65,538	1,71,252	1,41,698	1,20,105	93,474
Total receipts	1,98,675	1,91,888	1,85,823	2,00,482	1,92,737	1,65,520	1,71,251	1,41,698	1,20,046	93,474
Working Expenses. Direct Charges.					acytic spirit					
Maintenance and repairs Establishment Tools and plant Suspense accounts	48,201 41,925 3,593 (—) 1,697	88,933 43,395 2,380 (—) 14	47,843 38,537 2,250 (—) 1,036	52,482 45,410 2,476 3,169	62,704 45,838 1,330 ()3,015	68,763 51,581 1,644 1,066	77,364 58,732 1,861 478	68,588 60,669 1,890 1,238	69,991 63,436 1,150 2,823	60,873 60,925 1,646 (—)1,155
Total direct charges	92,022	1,34,694	87,594	1,03,537	1,06,857	1,23,054	1,33,435	1,32,385	1,37,400	1,22,289
Leave and pension allowances	5,870	6,075	5,395	6,357	6.417	7,221	*8,222	8,494	8,881	8,529
Total indirect charges	5,870	6,075	5,395	6,357	6,417	7,221	8,222	8,494	8,881	8,529
Total working expenses	97,892	1,40,769	92,989	1,09,894	1,13,274	1,30,275	1,46,657	1,40,879	1,46,281	1,30,818
Net revenue	1,00,783	51,119	92,834	90,588	79,463	35,245	24,594	819	(-)26,235	(-)37,344

The financial results are again far from satisfactory.

The Superintending Engineer writes-

"The net revenue derived from the Nadia rivers has again become a minus quantity, viz.,

—37,344 as compared with—26,235 of the previous year, or a further decrease of
Rs. 11,109, notwithstanding a marked reduction in the cost of maintenance.

The toll collections, during the past two years, have fallen from Rs. 1,20,105 to
Rs. 93,474, and this is mainly due to the exceptionally dry state of the rivers as explained in

previous paragraphs. Statement A appended to this report gives the collections at the

previous paragraphs. Statement A appended to this report gives the collections at the various toll stations and also the annual net revenue derived from these rivers since 1863-64

A reference to this statement shows that the loss of revenue is not confined to one toll station, but that it is general, and is entirely due to all these rivers being impossible of navistation, but that it is general, and is entirely due to all these rivers being impossible of navigation at the same time due to low floods in the Ganges and also to unfavourable entrances. Another cause of the decrease in toll collections is the competition of the entrances. Another cause of the decrease in toll collections is the competition of the East Indian Railway, which gives more favourable rates for traffic during the flood months when the rivers can compete for the Ganges traffic, and that the railway has been successful in competing for this traffic, was shown in last year's Revenue Report, when the average monthly receipts in the flood months from 1863 to 1869 were Rs. 24,285, while for the years 1883 to 1889 the receipts for the same months only average Rs. 14,307.

1883 to 1889 the receipts for the same months only average Rs. 14,307.

Writing on this subject last year I ventured to hope that the history of the Bhagirathi would repeat itself, and that the present period of depression would soon be followed by a sucwould repeat itself, and that the present period of depression would soon be believed by a succession of years of increased revenue and diminished expenditure. A marked decrease in the cost of maintenance has been shown during the year under review, but there never will be an increase of toll collections, unless the relation of the Ganges to the heads of the Nadia rivers becomes such that one or other of the rivers can be kept open at moderate cost

The following extracts on the working of these rivers taken from the Public Works Proceedings, dated 28th July 1870, are now reproduced as being of interest at the present

time, and it may as well be stated that the principles therein enunciated are still adhered to.

'It has long been recognized that the Nadia rivers cannot be made good navigable channels in the dry season, and it is not to be expected that more than one of them should be open during the whole season. It is unnecessary to enter upon and discuss the grounds of these opinions, which are the result of many years' experience and discussion. It will suffice to say that endeavours are directed to keep one of the rivers open all the year round, and the others open for as long a time as may be easily practicable. The degree to which the rivers are kept open depends upon several causes which are beyond control, such as the season up-country and in Bengal, the actual and relative times and quantities in which rain falls there and here, and so on.

These circumstances affect the conditions of the floods and currents of the Ganges, the Nadia rivers and their tributaries, so much so that in some years the rivers are entirely closed. The degree to which these rivers can be kept open is thus dependent on the season, and the utmost that can be said with certainty is that one of the rivers may have a minimum depth of water in the dry season of 3 feet or less, but that none of them can be expected to be in good navigable condition all the year round for large laden boats or even for the

majority of laden boats which trade on these rivers.

'In regard to the future working of these rivers it should be understood that it is primarily desired to keep the Bhagirathi open as the most important of the three rivers, and that its importance is considered to be so great that, when it may be impossible to keep it open, attention should be given to prevent its deteriorating and to facilitate its future re-opening.

The most favourable of the two other rivers, the Jalangi and Mathabhanga, should also be

kept open as far as possible, and should the Bhagirathi be bad, or closed, special efforts must be made to keep one or other open. What really should be done can only be settled each year

after examination of the rivers at the close of the floods."

RAIMPALI Frooms.

150. No rainfall register is kept up for these rivers.

The gauge readings at Gheria and Berhampore for the last ten years 151. are given below :-

18 5 74				Berhampore.	Gheria.
Year.					31.50
1887		•••	•••	30' 11'	32.35
1888		***	•••		34.00
1889		***	***	30' 4\frac{1}{9}	34.70
1890	•••	•••			29.30
1891	***	***	•••	26' 7" 29' 11"	31.55
1892	•••	58-95 ···	•••	27' 114"	30.75
1893	***	***	***	30' 31'	32.75
1894		•••		26' 11"	28.80
1895	***	ad 9	1011 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	25.33	28.50
1896		Company of the	•	20 00	

The highest reading of the Berhampore gauge was 25.33, on the 27th August 1896. The flood was the lowest recorded during the last 11 years.

The highest flood levels of 1896-97 are compared below with the highest levels in the previous year, and with the highest levels on record. The readings given are the heights above mean sea level:-

River. Locality.		1895-96	3.	1896-97	•	Highest known.		
Professional Contract	Date.	Reading.	Date.	Reading.	Date	Reading		
1	2	3	4	5	6	7	8	
Bhagirathi Jalangi Mathabhanga	Berhampore Saruganj Hanskhali	19th Aug. 1895 26th ,, ,, 23rd ,, ,,	26·12 24·25 19·66	27th Aug. 1896 26th ,, ,, 27th ,, ,,		14th Aug. 1890 28th ,, ,, 3rd Sept. ,,	64·71 34·88 39·93	

152. The several classes of boats which plied on the rivers and the tolls collected from them are tabulated below:-

		NUMBER	AND CI	ASS OF	BOATS.		Co	OLLECTI	ONS BY	TOLL COL	LECTORS	
NAME OF RIVER.	Up to 194 maunds.	Between 100 and 1,000 maunds.	Between 1,000 and 2,500 maunds.	Between 2,500 and 5,000.	Over 5,000 maunds.	Total.	Tolls from boats.	Tolls from rafts.	Tolls from steamers and flats.	Total tolls.	Miscellaueous re-	Total collections.
1	2	3	4	5	6	7	8	9	10	11	12	13
Bhagirathl (Jangipur toll station). Bhagirathi and Bhyrub- Jalangi (Sarupganj toll	No. 3,987 11,871	No. 1,749 11,642	No. 431 511	No. 118 92	No. 14	No. 6,299 24,127	Rs. 15,976 44,410	Rs. 444 186	Rs. 44409 5,422	Rs. 20,829 50,018	Rs.	Rs. 98,474
station). Mathabhanga and Ichamati (Hanskhali toll station).	4,429	5,751	325	18		10,523	22,528	8	9	22,545)	
Total 1896-97	20,287	19,142	1,267	228	25	40,949	82,914	638	9,840	93,392	82	93,47
Total 1895-96	22,319	21,829	2,248	194	8	46,598	1,00,452	115	19,414	1,19,981	124	1,20,10

153. The following is a statement of the number of boats, their tonnage, TRAPPIC. the weight and value of their cargo, and the toll collection:-

Name of River.	Number of boats, steamers and flats (exclu- sive of rafts).	Tonnage of boats.	Weight of cargo.	Value of cargo.	Toll* collection.	Percentage of toll on value of cargo.	
1	2	3	4	5	6	7	
	No.	Tons.	Tons.	Rs.	Rs.		
Bhagirathi Ditto and Bhyrub Jalangi Mathabhanga and Ichamati	24,340	86,781 240,214 107,725	42,598 88,341 38,511	28,45,206 1,27,63,201 36,67,035		0·71 0·39 0·61	
Total, 1896-97	41,484	434,720	169,450	1,92,75,442	92,754	0.48	
Total, 1895-96	47,300	591,718	219,967	2,49,79,251	1,19,866	0.48	

^{*} Tolls from boats, steamers and flats (exclusive of rafts).

The Superintending Engineer remarks:-

"The foregoing statement shows a falling off under all heads, more especially at Sarupganj and Jangipur, where the weight of cargo registered during the year was 88,341 tons and 42,598 tons, respectively, compared with 112,821 tons and 68,333 tons in the previous year. This vast decrease is entirely due to the deterioration of the Jalangi and Bhagirathi rivers in December last, thus diverting the through traffic from the Northern Bengal districts and Bihar to Goalundo, whence it was transhipped and railed to Calcutta." STRAMBR SERVICE.

154. No transport service is maintained by Government on these rivers. The steamer service kept by the several companies is shown in the statement below:—

Namire	그는 그리고 한다면 하는 그리고 한다면 생각을 잃어 빼앗아 없다고 있다. 그는 그는 그는 그는 그는 그는 그는 그는 사람이 없다고 있었다. 하는데 살아보니 아니라 내려를 하고 있다. 그는 그는 그는		Outward	Period.	
of Service.	From-	То—	inward.		
1 ,	2	3	4	5	
	Calcutta A	Steam Navigatio	m Company.		
Weekly	Calcutta	Jangipur	Both	From 7th July to 27th October 1896.	
Twice a week	Kalna	Katwa and Jeaganj.	Do	From 29th June to end of November 1896.	
Ditto	Azimganj	Dhulian	Do	From 8th July to 22nd October 1896.	
Twice daily	Berhampore	Azimganj	Do	From 4th July to 23rd October 1896.	
Ditto	Lalbagh	Ditto	Do	Throughout the year.	
	* East I	ndian Railway	Company.		
Twice a week	Azimganj	Dhulian	Both	From 6th July to 29th September 1896.	
Daily	Lalbagh	Azimganj	Do	From 1st January to 30th June 1896.	

REVENUE ESTABLISH-MENT.

155. The cost of the revenue establishment for the last five years is shown below:—

· Harden and	1892-93.	1893-94.	1894-95.	1895-96.	1896-97.	
1	2	3	4	5	6	
	Rs.	Rs.	Rs.	Rs.	Rs.	
Salary and commission of Col-	12,391	12,644	14,807	14,010	14,338	
lectors. Accounts and office establish-	8,879	8,901	8,494	8,407	8,820	
ment. Travelling allowance Contingencies	601 411	525 947	766 395	756 409	73 422	
Total	22,282	23,017	24,462	23,582	24,373	

There was an increase of Rs. 791 during the year, due mainly to the payment of exchange compensation allowance to the Toll Collector.

156. The charges for maintenance and repairs (exclusive of establishment MAINTENANCE and tools and plant) for the last three years, are detailed below:—

Particulars.	1894-95.	1895-96.	1896-97
1	2	3	4
Training works in river Bhagirathi ,, ,, Bhyrub ,, Jalangi ,, Mathabhanga Sounding Nadia rivers Maintaining and working divisional boats Petty and other charges	Rs. 41,642 3,989 7,034 2,717 6,535 2,493 4,178	Rs. 45,694 6,107 6,932 844 5,731 2,297 2,386	Rs. 36,602 5,540 5,549 1,739 6,059 5,032 352
Total	68,588	69,991	60,873

The total expenditure for maintenance of the Nadia rivers, inclusive of charges for establishment and tools and plant, but exclusive of indirect charges, was Rs. 1,22,289, as compared with Rs. 1,37,459 of the previous year, thus showing a decrease of Rs. 15,170, which was due to every possible endeavour having been made during the year to keep expenditure down to a minimum. A further reduction in the cost of training works would, in all probability, have been attained but for the sudden fall of the gauges, which necessitated the commencement of the bandels in deep water, and consequently, they had to be made stronger in order to resist the force of the current.

Of the total expenditure Rs. 1,22,289, Rs. 32,643 represent the amount of arrears for the previous year, so that Rs. 80,646 were actually spent on training works from 1st October 1896 to 31st March 1897, inclusive of all charges.

157. The miscellaneous receipts during the year amounted to Rs. 82 MISCELLANEagainst Rs. 124 in the previous year.

158. No work was done under this head except at a few shoals, where DREDGING sand was cleared by *kodalis* in order to keep up a running stream of good CLEARANCE. drinking water for the towns and villages along the river banks.

on the berms of the Bhagirathi embankment (Schedule D, No. 94). The number of trees is shown in the following statement:—

YEAR.	Trees over 12 feet.	Saplings from 4 to 12 feet.	Seedlings below 4 feet.	Total.
1	2	3	4	5
1895-96 1896-97	No. 13,184 16,062	No. 4,020 2,731	No. 1,751 799	No. 18,955 19,582

EDEN CANAL.

160. This canal is not navigable. It lies partly in the Burdwan and partly in the Hooghly district, its supply of water being obtained from the Damodar. No Capital or Revenue account is maintained. The aggregate

length of the excavated channels remained the same as last year. The lengths of the several channels are as follows:-

lannels are as	0.1019.00.000.00		Miles.
Joojooty sluice and channel.	Nos. 1 and	2	2 191
Edon Canal proper		••	
Kana Damodar juneilon cut	Application of the second	2-55-576-57	25 21
Saraswati junction cut	the Rankini	Doho	
and the Kana Damodar Connecting channel between			
and Kana Nadi	At	•••	- 3
	Total		271
[[- [[[[[[[[[[[[[[[[[

Besides the above, the natural channels of the Kana Nadi, Kana Damodar, Banka Nala, and North and South Saraswati are included in the system.

The gross area commanded by the Eden canal is about 300,000 acres, of which about 200,000 acres are culturable, and 100,000 acres irrigable.

161. The receipts and expenditure for the last two years are given

REVENUE ACCOUNT.

Expenditure.	1895-96.	1896-97.	RECEIPTS.	1895-96	1896-97
1	2	3	4	5	6
	Rs.	Rs.		Rs.	Rs.
Works	3,072 37,341	51,385 28,039	Water-rates Miscellaneous	30,763 355	36,775 316
Maintenance and repairs Establishment Tools and plant	14,951 606	28,625 408	Total Less-Refunds of Revenue	31,118 201	37,091 556
Total expenditure	55,970	1,08,457	Net total receipts	30,917	36,535
Balance, deficit *	25,053	71,922		de car	

The following original works were in progress during the year:-

Distributary No. 1, 7 miles 4,270 feet in length, takes off from the Eden Canal above Regulator No. 3 at Chanchai. It will feed the Dhusi Nadi. The estimated cost of this distributary is Rs. 44,466, against which an expenditure of Rs. 23,229 was incurred during the year exclusive of land discrete.

Distributary No 2, the length of which is 9 miles and 4,055 feet, will feed the Ilsura Nadi. Its estimated cost is Rs. 49,759, and expenditure up to 31st March 1897 was 27,075. The upper portions of both these two nadis have considerably silted up, and fresh water will be supplied to them through these new distributaries, while, it is hoped, they will also be largely used for irrigation. The earthwork was well advanced before the year expired, and largely used for irrigation. The earthwork was well advanced before the year expired, and largely used for irrigation. The earthwork was well advanced before the year expired, and largely used for irrigation. The earthwork was well advanced before the year expired, and largely used for irrigation. The total expenditure on original works during the year was Rs. 51.616. during the year was Rs. 51,616.

The cost of maintenance, exclusive of charges for establishment and Tools and Plant, was Rs. 27,748, as compared with Rs. 37,341 of the previous year. The decrease was due to there being no silt clearance from the Banka above the weir at Kanchanaghur, which alone cost Rs. 8,585 in 1895-96.

The cold-weather supply of the canal was kept up, as usual, by a sand dam across the Damodar at Joojooty, at a cost of Rs. 3,829 against Rs. 3,522 of the

The receipts from water-rates showed an increase of Rs. 6,012.

162. The rainfall registered at Edilpur in the Bur Iwan district was 47.95 as compared with 44.42 inches as compared with 44.43 inches in 1895-96, the fall during the kharif season being 25.43 inches on 2.71 season being 25 43 inches, or 3.71 less than that of the previous year.

RAINFALL.

Regarding crop experiments, the Superintending Engineer CROP EXPERI-

"Some crop experiments were made during the year. The total number of these experiments was ten. The average outturn was that an acre of middle class land irrigated by canal water produced 29 mds. 26 seers of paddy and 37 mds. and 9 seers of straw, while an acre of similar land, which did not receive the benefit of canal water, produced 15 mds. 3 seers of paddy and 20 mds. and 15 seers of straw only."

164. The total area leased was 19,671 acres, as compared with 43,525 ARRAS LEASED acres in 1895-96, the decrease being attributed to the non-renewal of several old ARD IRRIGATfive and four-year leases which expired in 1895-96 in the Hooghly district,

owing to the want of proper means of irrigation. The area irrigated during the year under review was 21,294 acres consisting of 14,659 acres of kharif and 1,286 acres of rabi in the Burdwan district, and 4,385 acres of *kharif* and 964 acres of *rabi* in the Hooghly district, as compared with 36,221 acres of the previous year, viz., 19,156 acres of *kharif* and 1,719 acres of rabi in the former, and 15,180 acres of kharif, and 166 acres of rabi, in the latter district.

Out of 4,385 acres irrigated in the Hooghly district during the kharif season, 2,352 acres received one watering only, as they were situated beyond the area commanded by the canal. There was no surreptitious irrigation during the

The areas irrigated by the Eden Canal during the last five years are shown below:-

Years.	Long leases.	Annual leases.	One flushing beyond area commanded.	Unauthor- ized.	Total.	Remarks
1	2	3	4	5	6	7
1892-93 1893-94 1894-95 1895-96 1896-97	Acres. 47,848 11,601 19,650 30,195 16,580	Acres. 6,534 138 20 1,984 2,362	720 3,884 2,352	Acres. 16,951 158	Acres. 71,333 11,739 20,390 36,221 21,294	

With the improved means of distributing the water, afforded by the new distributaries now under construction, it is anticipated that a much larger area will be irrigated in future.

165. The water-rates, assessed during the year, amounted to Rs. 31,452, COLLECTIONS compared with Rs. 37,809 in 1895-96, and adding the unrealized balance. AND BALANCE. as compared with Rs. 37,809 in 1895-96, and adding the unrealized balance, Rs. 33,883, of the four previous years, the gross demand for the year was Rs. 65,335 against Rs. 70,978 of the preceding year. Deducting Rs. 1,981 on account of commissions paid on advance payment, and remissions amounting

to Rs. 1,274, the net assessment of the year was Rs. 62,080.

The collections of the year amounted to Rs. 36,775. This sum includes Rs. 657 on account of interest which was realized by the Certificate officers and by the Subdivisional officers of Edilpore and Seijberiah, and Rs. 556 which was refunded to the lessees for excess payments made by them in 1895-96, the collection, therefore, was Rs 35,562. The balance unrealized at the close of the year was Rs. 26,518 against Rs. 33,883 in the previous year. Out of this sum Rs. 10,699 referred to in last year's Revenue Report will probably have to be written off as irrecoverable.

166. The cost of the revenue establishment during the year was Rs. 4,321

against Rs. 4,215 in the previous year.

167. The miscellaneous receipts amounted to Rs. 316 against Rs. 355 in 1895.96.

REVENUE MENT. MISCELLA-RECEIPTS.

PLANTATIONS.

FLOODS

168. The expenditure on plantations was Rs. 72 against Rs. 76 in the previous year. Some mahogany seedlings died during the year, reducing

the total number from 327 to 303.

169. There were five floods in the Damodar river during the year, of which the highest occurred on the 22nd July, when the river rose to 16 feet. The effect of this flood on both sides of the river was disastrous, but no damage was done to the canal.

GAIGHATTA AND BUXI KHAL.

LENGTH OF

170. The re-excavation of this khal was completed during the year 1895-96 at a cost of Rs. 29,325. The cost of maintaining it during the year ander review, inclusive of establishment charges, was Rs. 659. The right of collecting tolls on the khal has been leased for five years, commencing from the year 1896 97, at an annual rental of Rs. 4,500. Rupees 3,800 were realised before 31st March 1897, and the balance, Rs. 700, has since been realized under hand miscallaneous comments. head miscellaneous; a sum of Rs. 20 was realized during the year.

MADHUBAN CANAL.

The expenditure incurred in maintaining this canal during the last five years is shown below:-

PARTICULARS.	1892-93.	1893-94.	1894-95.	1895-96.	1896-97	
1	2	3	4	5	6	
	Rs.	Rs.	Rs.	Rs.	Rs.	
Works Maintenance Establishment Tools and plant Refunds of revenue	7,093 2,813 126	5,943 2,438 2	5,567 2,405 36 27	2,488 1,269 7 44	3,859 1,861 71	
Total	10,032	8,383	8,035	3,808	5,791	

REVENUE

No revenue is derived from irrigation on this canal, as water-rates are not levied. The miscellaneous receipts were Rs. 100 against Rs. 121 in 1895-96.

172. The total area irrigated was 11,251 acres, as compared with 2,254 acres in the previous year. There was great demand for water throughout the whole year, especially in the cold weather from September to March. The figures for the area irrigated are unreliable, as no measurements are made. The long proposed Lakhaura distributary from this canal was undertaken as a Famine Relief Work.

The areas of the different crops irrigated during the last five years were

as follows

Nature of crop.	1892-93.	1893-94.	1894-95.	1895-96	1896-97
1	2	3	4	5	6
Kharif Rabi Poppy Hot-weather crops	Acres. 4,895 150 734 640	Acres. 2,710 46 301 14	Acres, 5,033 117 322 46	Acres. 980 112 783 379	Acres. 5,878 1,905 2,342 1,131
Total	6,400	3,071	5,518	2,254	11,251

173. The state of the plantations for the last two years is shown below: — Plantations.

YEAR.	Trees over 12 feet.	Saplings between 4 and 12 feet.	Seedlings under 4 feet.	Total.
1	2	3	4	5
1895-96 1896-97	No. 251 251	No. 240 241	No. 211 212	No. 702 704

GENERAL RESULTS.

174. The net results of the year 1896-97, compared with those of the NET REVENUE. previous year, are shown below:—

Particulars.	Receipts from all sources.	Working ex- penses, includ- ing refunds of revenue. (Direct and indirect charges.)	Profit or loss.
1	2	3	4
Major Irrigation Works, 1895-96 1896-97	Rs. 15,15,315 19,09,613	Rs. 13,91,926 13,74,115	Rs. +1,23,389 +5,35,498
MINOR WORKS AND NAVIGATION.			The transfer of the
For which Capital and Revenue accounts are kept.		j L	
1895-96 1896 97	5,45,406 5,27,627	3.63,472 3,31,090	+1,81,934 +1,96,537
For which only Revenue accounts are kept.			
1895-96 1896-97	1,25,230 97,294	1,59,844 1,31,502	-34,614 -34,208
For which neither Capital nor Revenue accounts are kept.		(2016)	10 1 10 10 10 10 10 10 10 10 10 10 10 10
1895-96 1896-97	31,239 37,191	59,979 1,23 , 962	(-)28,740 (-)86,771
Total { 1895-96 1896-97	22,17,190 25,71,725	19,75,221 19,60,669	+2,41,969 +6,11,056

The total receipts exceed the figures of the revised budget estimates by Rs. 2,12,125, while the total direct expenditure was Rs. 1,22,720 less than that provided in the budget.

175. Reckoned on earnings, that is, on assessed revenue, as opposed to actual receipts, the net results of the Major Irrigation Works for the last two years were as follows:—

EARNINGS.

			Earnings.	Working expenses.	Profit or loss.
			Rs.	Rs.	Rs.
1895-96	•••		15,75,482	13,91,926	(+)1,83,556
1896-97		•••	20,97,981	13,74,115	(+)7,23,866

The revenue from Minor Works and Navigation is derived mainly from

tollage receipts.

176. The work done during the year, in the recovery of water rates was, on the whole, excellent, and the reduction of the uncollected balance from Rs. 67,460 to Rs. 25,464 is very satisfactory.

The figures for the three canal systems are given below:—

	Canals.		Outstanding on 1st April 1896.	Demand of 1896-97.	Collected or adjusted.	Outstanding on 1st April 1897.
1000	1		2	8	4	5
Orissa Midnapore Sone		::	Rs. 34,343 10,124 22,993	Rs. 2,35,517 1,05,660 9,49,666	Rs. 2,65,263 1,04,345 9,63,231	Rs 4,597 11,439 9,428
	Total		67,460	12,90,843	13,32,839	25,464

Paragraphic or a state	1 4%	DEMAND.	0.40107		TIONS, INCL.	UDING	PERCENT	AGE OF COL	LECTION
CANAL.	Arrear.	Current.	Total.	Arrear.	Current.	Total.	Arrear.	Current.	Total.
1	9	3	•	5	6 🐷	7	8	9	10
1896-97.	Rs.	Rs.	Rs.	Rs.	Re.	Rs.	Rs.	Rs.	Rs.
Orissa Canals	15,220	2,21,086 1,00,565 9,48,280	2,69,860 1,15,785 9,73,858	48,749 14,311 25,124	2,16,514 90,635 9,39,306	2,65,263 1,04,346 9,64,430	94.02	97°93 89°52 99°05	98°29 90°12 99°03
Total, 1896-97 .	. 89,579	12,69,931	13,59,503	88,184	12,45,855	13,34,039	98145	98*10	98'12
Midnapore Canal	94,960 4,540 41,242	1,68,907 1,04,111 6,55,813	2,63,867 1,08,660 6,97,055	87,551 9,488 40,285	1,41,973 95,048 6,33,777	2,29,524 98,536 6,74,062	76.67	84.05 91.29 96.63	86°98 90°68 96°70
	1,40,751	9,28,831	10,69,582	1,31,324	8,70,798	10,02,122	93-30	93:75	93-60

VALUE OF

177. In the following table a comparison is made between the approximate value of crops irrigated by Major Irrigation Works during 1896-97 and the previous year :-

	18	395-96.	- 189	06-97.
Canals.	Area irrigated.	Value of crops.	Area irrigated.	Value of crops.
1	2	3	4	5
Midnapore	Acres. 117,996 65,251 895,222	3° 25,44,254 21,53,283	Acres. 185,048 65,183 555,156	Rs. 67,10,879 31,93,967 2,66,62,086
	578,469	1,81,84,618	8,05,387	3,65,66,932

^{*} Exclusive of 1,464 acres of additional kharif demand assessed after the close of the year.

The average value per acre of the various crops irrigated has increased from Rs. 31.43 to Rs. 41.82.

178. The date fixed for the submission of revenue reports to the office of DATE FOR the Chief Engineer is the 5th September. The dates when the different reports REPORTS.

Orissa Circle Deputy Collector's Commissioner.	report through	In 1896. 11th September.		n 1897. September.
South-Western Circle Commissioner.	report through	2nd ditto. 5th October.	4th 11th	ditto.
Sone Circle (Superintending Engi	report through	4th September. 7th ditto.	1st 7th	ditto.
(Superintending Engi	neer's report	28th August.	24th	August.

All were punctual.

179. As far as irrigation is concerned, the year was one of a more favour-

able character than the two years preceding.

The year 1896-97, though fraught with scarcity and distress to the country generally, was an exceedingly favourable one for the canals in Bengal. The rainfall, though plentiful in Orissa and Midnapore, was very deficient in the Sone, and was badly distributed in all districts. Rain failed entirely at the critical periods when it was most required for the crops. The consequence was an extraordinary demand upon the canals for water, and an unprecedented extension of the area irrigated. It has occasionally happened that the vagaries of the rainfall have caused a large extension of irrigation either in the kharif or in the rabi season, but this year the increase occurred in both seasons. The increase is most remarkable in the Sone Canals, where the area watered was the largest on record, far exceeding that of 1891-92 which has hitherto stood forth as the record year. In Orissa, too, the area was very large as compared with previous years. It may well be imagined that such a year would be one of extreme pressure on the canal officers; in the Sone Circle the strain was incessant throughout the kharif and rabi seasons. The results are better than any which have been declared before, and though this is admittedly due largely to the character of the season itself, it is none the less true that such results could not have been obtained without hard work, patience, and cheerful co-operation among all members of the staff. The Superintending Engineer writes in the highest terms of the work done by the Executive Engineers, Messrs. T. Butler, C. H. Demello, and L. G. Searight. The Subdivisional Officers Messrs. O. S. Smith, W. S. Bremner, E. Blaber, C. W. Sibold, Babus J. N. Bose, S. S. Pal, T. C. Sircar, K. C. Bannerjee, R. L. Sircar, M. N. Sircar, also bore their full share of the work, and are deserving of praise. On the Midnapore canal the demand for irrigation in October was great, and the supply of water available was very limited. The Superintending Engineer reports that it was only by the personal energy of the Executive Engineer Mr. Barlow and his staff that so large an area was irrigated with such an inadequate supply. Good work was also done by the officers of the Orissa Canals where the rush for water in October was considerable.

Taking all the canals together, the cost of their maintenance showed a slight reduction, though the expenditure on the Sone and Orissa Canals had rather increased. The marked reduction in the cost of maintaining the Sone and Orissa Canals, observable last year, was referred to in terms of great satisfaction; but as it is clear that expenses cannot be brought down below the sum necessary for keeping the canals in a thoroughly efficient state, a continuous record of reduced expenditure cannot be looked for. For the last few years the progress in the collection of water-rates has steadily improved in the most satisfactory manner, and this year the results are exceptionally good. In the Sone Circle the transactions were very large, and not only was the uncollected balance the lowest, and the percentage of collections the highest on record, but the percentage was over 98, which leaves but little margin for further improvement. These very satisfactory results are most creditable to the Deputy Collector Maulvi Syed Mahomed Nasiruddin and his staff. The collection work in Orissa was good.

180. It is gratifying to have to record a further development of traffic on the canals classed as Major Works, the receipts from which showed a

The large export of rice to less favoured districts considerable advance.

contributed chiefly to this result.

The Calcutta and Eastern Canals and the Orissa Coast Canal were not so successful, though the falling off is not serious. The state of affairs in the Nadia Rivers continues to be a source of disappointment. Last year hopes were entertained that a way out of the difficulty might be found, but a satisfactory solution of the problem seems as far off as ever. Low floods in the Ganges caused the closure of the route at an unusually early date, and the tollage receipts fell to a deplorable extent. The question of improving the route occurries, as it has continued to do for many years, the correst attention route occupies, as it has continued to do for many years, the earnest attention of the officers concerned; but it is no easy matter to deal with, and it seems inadvisable at present to hold forth any prospects of early improvement.

181. The rules for the guidance of officers conducting experiments on the

outturn of crops, which were referred to in the Revenue Report of last year as being drawn up, have been issued, but they were not brought fully into opera-

tion during the year.

A. D. McArthur, Col., R.E., Chief Engineer.

The 25th October 1897.

	Orissa Coast Cenal.	12	Rivers Russal- pur, Subarnare- kha, Panchpara, Burrabolong	rot .yla	Inna CabiT to nothegivan	43,46,873	44,74,941	48,91,938 1,06,352	(6) 44,98,290	M	102	EEZ	102
arete	Calcutta and Early Canals.	п	River Hoogh- ly and Sundarban creeks.	for ally.	Tidal Canals on or	E A E E	(a)	58,75,537 79,791	59,55,328	IN I	47	IN .	47(c)
	Затап Сапаја.	10	River Gan-	5,082 March 26th, 1884.	1,084 42.66 64,000 50,000 50,000 30,000	6,63,521 33,111	6,96,632	6,69,570 27,183	6,96,753	63 125 Nil	Nil	63 123 . Nil	Nil *
	.latoT	6	-	22nd, 1883. 16th, 1884.		2,78,88,697 13,99,607 29,67,227	3,22,65,531	2,59,80,971 9,16,397 2,17,72,201	4,86,69,569	2181 1484 1,2294	2183	2181 1484 1,2291	2183
SONE CANALS.	Western Main Canal Series.	o o		Pebruary		2,78,88,697 13,99,607 29,67,227	,22,55,531	2,59,80,971 9,16,397 2,17,72,201	4,83,69,569	1324 1484 879	1324	1321 1484 879	1321
00	Eastern Main Canal Series.	2	River	1,868	1,850 42°94 406,155 317,307 309,040 809,040	2,78 139 299	3,22,	2,59	4,83,	864 Nil 3504	864	864 Nil 3504	1 98
**	JanaO labiT iliţiH	9	Rivers Bup- narain and Russalpur.		Tidal Canal formation on	25,41,849 67,620 2,17,460	28,26,939	25,51,429 63,513 20,37,454	46,52,396	Nil Nil Nil	53	Nilli	29
	Midnapore Canal.	10	River Cossye.	2)5	70,319 54:39 180,000 173,160 125,000	83,73,091 1,84,215 54,17,730	1,39,75,036	82,75,723 1,84,529 80,61,929	1,65,22,181	63 19 304·89	72	53 19 283-97	73
	.latoT	4	:	::	6,058 65.86 671.300 577,451 577,451 400,605	3,14,54,901 9,21,550 1,21,54,723	4,45,31,174	2,56,56,1/3 5,80,926 2,17,39,497	4,79,76,526	1704 1174 2,147	2403	1704 1094 1,0914	2043
ORISSA CANALS.	Brahmini-Byturni Series.	က	Rivers Brahmini and By-	Not taken. Ditto	2,156 66.14 137,500 137,500 137,500 81,034	3,14,54,901 9,21,550 1,21,54,723	4,45,31,174	2,66,56,103 5,80,926 2,17,39,497	4,79,76,526	314 613 384 384	88	31½ 6½ 129½	38
OR	Mahanadi Series.	83	River Ma-	Not taken 1,148	3,902 61.43 483,800 489,951 439,951 819,671	3,14,5 9,2 1,21,6	4,45,3	2,56,6 5,8 2,17,9	4,79,7	1383 1103 1,763	2023	1384 103 962	1664
	Равпоплав.	1	Source of supply of water	Minimum discharge of river—cubic feet Kharif	of canals—cubic feet p fall ed mplete project	Sanctioned estimate— Direct charges Rs. Indirect do	Total estimate	Expenditure to end of 1896-97— Direct charges Rs. Indirect do	:Total expenditure	Works as now sanctioned— Main canals, irrigation Branch do., do do do histributaries, including village channels ,	Navigable channels Miles	Main canals, irrigation Branch do,, do, Distributaries, including village channels ,	MG

(a) There is no general sanctioned estimate for this project.

(b) Includes Rs. 8,65,000 expended from Famine Relief Funds.

(c) This length is that of the Calcutta and new cut Canals and Tolly's Nala with 20 miles of Kaorapukur khal. The Eastern Canals are 316 miles in length, steamer route 350 miles, and bheel route between Kumar and Madhumati rivers connecting Khuina with Madaripore, 24 miles. Total length of the Calcutta and Eastern canals system, 737 miles.

CAPITAL ACCOUNT OF IRRIGATION WORKS IN BENGAL FOR, AND TO END OF, 1896-97.

		DIRECT	CHARGES (NET.	r Experitture).	7BE).		Indirect		
Івпідатіси Works.	Works.	Establish- ment.	Tools and plant.	Suspense accounts.	Loss by exchange.	Total.	charges, exclusive of interest.	Total capital, excluding interest.	Simple interest.
	63	80	4	9	9	1-	∞	6	10
Adjer Irrigation Works. Orissa Project To end of previous year During 1896-97 Tidal Canal During 1896-97 To end of previous year During 1896-97 To end of previous year During 1896-97 To end of previous year During 1896-97	Rs. 1,86,65,950 9,431 53,48,026 4,927 17,78,408 25,731 1,85,56,529 — 12,322	Rs. 46,38,695 2,059 19,19,580 1,133 5,77,780 5,631 51,74,297 1,780	Rs. 20,37,119 9,07,257 1,36,089 5,000 21,15,210 18,485	Rs. 31,874 3,405	Bs. 2,68,070 94,800 22,790 52,240	Rs. 2,56,41,208 14,895 82,69,663 6,060 25,15,067 2,60,10,259 2,60,10,259	Rs. 5,80,638 288 1,84,370 159 62,725 788 9,16,148	Rs. 2,62,21,846 15,183 84,54,033 6,219 25,77,792 37,150 2,69,26,407 2,69,26,407	Rs. 2,07,13,551 10,25,946 77,31,021 3,30,905 19,36,124 1,01,330 2,07,32,376 10,39,825
Total (To end of previous year During 1896-97	4,43,48,913	1,23,10,352	51,95,675	1,43,357	4,37,900	6,24,36,197	17,43,881 1,484	6,41,80,078 29,513	5,11,13,072 24,98,009
Minor Works and Navigation.							1000		
Tirhut Project During 1896-97 Damodar " To end of previous year During 1896-97 Saran " To end of previous year During 1896-97 Orissa Coast Ganal To end of previous year ern Canals. During 1896-97 Circular and East- To end of previous year ern Canals.	90,685 	4,83,943 94,864 1,64,170 7,51,478 2,920 4,14,691 81,164	6,797 4,800 25,952 2,27,911 1,000 8,78,564 10,903	29,747 3,656 3,986		5,31,425 1,42,741 -1,200 6,69,570 43,71,665 20,273 54,21,139 4,54,398	74,650 16,239 27,183 1,05,943 65,214 14,577	6,06,075 1,58,980 1,200 6,96,753 4,77,608 20,682 54,86,353 4,68,975	
Total To end of previous year During 1896-97	85,99,437 3,73,356	18,59,346 84,084	6,44,024	33,733 4,128	::	1,11,36,540 4,73,471	2,89,229	1,14,25,769 4,88,457	::
Grand Total To end of previous year During 1896-97	5,29,48,350	1,41,69,698	58,39,699	1,77,090	4,37,900	7,35,72,737 5,01,500	20,33,110	7,56,05,847 5,17,970	5,11,13,072 24,98,009

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		Works.	Establish- ment.		Total.		Works.	Establish- ment.	Tools.	Total.
		Bs.	Rs.	Rs.	Rs.		Bs.	Bs. Rs.	Ŗ,	Bs.
Orissa Project To end of previous year	of previous year	44,657	13,300	13,300 [28,280	86,237	Damodar Project To end of previous year	47,549	:		49,849
Midnapore Ganal To end o	of previous year	12	7,300	11,690	31,558	Saran Project Sa	1,200	::	11	1,200
Tidal Canal The end of previous year	of previous year	10	1 :	916	925	Orissa Coast Canal Thuring 1806-37	3,028	280	:	8,293
Sone Canal { During 1896.97	To end of previous year	2,08,094	32,711	1,33,640 3,74	3,74,445	11-	64,467	::	::	54,467
Tirhut Project To end of previous year	f previous year	45	7.	88	158	Country Country 1000-01	÷	:	:	

I

STATEMENT SHOWING THE FINANCIAL RESULTS OF IRRIGATION

Realizations under minor heads of

				REVEN	UE (ACT)	UAL REC	EIPTS).	*				
	IR	RIGATION	N.	*		coa 🎎				funds).	173,620	REVENUE
IRRIGATION WORKS.	directly	d reve-			and lands.				revenue.	ts (less ref	7	Establish
	Water-rates o	Share of land nue.	Total.	Navigation.	Plantations at	Water-power	Miscellaneous	Total.	Refund of	Gross receipts (less refunds).	Direction.	Executive.
1	2	8	6	5	6	7	8	9	10	11	12	13
MAJOR WORKS.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Orissa Project	2,46,777		2,46,777	1,94,100	2,998		30,842	4,74,217	1,270	4,72,947	5,589	61,127
Midnapore Canal	1,00,618	-	1,00,618	1,54,215	28		24,895	2,79,757	1,090	2,78,667	2,930	18,082
Hijili Tidal Canal				89,511	30		1,405	90,946		90,946	559	3,521
Sone Canal	9,57,726		9,57,726	70,006	2,958	1,347	32,656	10,64,693	5,048	10,59,645	4,418	97,103
Total Minor Irrigation Works.	13,05,121		13,05,121	5,07,832	6,014	1,347	89,299	19,09,618	7,408	19,02,205	13,496	1,70,733
MINOR WORKS AND NAVIGATION.												
Works for which capital and revenue accounts are kept.					3		1,248	1,306	370	934	236	857
Saran Project	53		83				2,403	86,259	118	86,141	1,338	8,430
Orisea Coast Canal				83,856			18,639	4,40,064	126	4,89,938	4,518	-14,988
Calcutta and Eastern Canals.		-		4,26,425			Logo				-	4.0
Total	63		53	8,10,281	3		17,290	5,27,627	614	5,27,013	6,092	-5,701
Werks for which only revenue accounts are kept.							82	93,474		93,474	1,522	16,754
Nadia Rivers	-	-		93,392	-	-	82 20	3,820		3,820	12	
Qaighatta and Buxi Khals			-	3,800	-	-	Land Lake Com					
Total		-		97,192	100.11		102	97,294	-	97,294	1,534	16,890
Works for which neither capital nor revenue ac- counts are kept.						32.34		er 601	556	36,535		
Eden Canal	86,775		36,775	-	-		816	37,091		100		
Madhuban Canal	-	-	-		-	-	100	100				-
= Total	36,775		36,775	3			416	87,191	550	36,635		
Total Minor works and	d 36,828		36,828	6,07,473	3		17,808	6,62,112	1,170	6,60,949		-
Navigation. Grand Total	13,41,949	-	13,41,949	11,15,305	6,017	1,847	1,07,107		8,578	25,63,147		

⁽a) Irritation Revenue Officers special

(b) Rupees ,321 were expended during the year on account of salaries and travelling allowances of the temporary establishment, consisting of the temporary establishment.

C.

WORKS IN BENGAL FOR THE YEAR ENDING 31st MARCH 1897.

Revenue and Working Expenses.

	100			*	W	ORKING	EXPENS	ES.							
MANAG	BMENT.				3 /1		MAINTEN	NCB OF V	VORES.			4		Ė	
nent.	1 4			Establi	shmer	nt.								working	
Navigation,	Civil officers(a).	Total.	Direction,	Executive.	Medical.	Total.	Works.	Repairs.	Sundries,	Tools and plant.	Plantations.	Total.	Indirect charges.	Grand total w	Net revenue.
14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	19
Rs.	Rs. 72,778	Ŕs.	Rs.	Rs. 61,127	Rs.	Rs. 66,716	Rs.	Rs. 2,17,512	Rs.	Rs.	Rs. 181	Rs.	Rs.	Rs.	Rr.
8,310	22,663	52,885	2,931	18,983		21,914	9,056	1,07,868		30,827	287	2,22,837	10,472	2,33,309	45,3
3,988		8,068	558	3,521		4,079		22,302		4,000	41	38,490	1,701	40,191	50,78
14,954	1,50,530	2,57,004	4,419	87,102		91,521	25,029	1,46,621	3	23,400	5,094	5,48,671	48,793	5,97,464	4,62,18
44,387	2,45,971	4,74,586	13,497	1,70,733		1,84,230	39,944	4,94,303	2	75,805	5,603	12,74,473	92,234	13,66,707	5,35,49
									2					1025 1025 1046	1
		1,093	235	837		1,093		9,340		26	77	11,628	306	11,934	-11,0
7,006	·	16,774	1,338	8,430		9,768		53,525		4,000		84,067	3,716	87,783	-1,6
40,276		29,806	4,518	-14,988		-10,470	49,059	1,30,496		28,001	1,160	2,28,052	2,707	2,30,759	2,09,15
47,282	(see	47,673	6,091	-5,701		390	49,059	1,93,361		32,027	1,237	3,23,747	6,729	3,30,476	1,96,5
														1.58	43
24,373		42,649	1,522	16,754		18,276	-	100	-1,155	1,646		1,22, 289	8.529	1,30,818	-37,34
		88	12	75	****	87		484	•••			659	25	684	3,18
24,373		42,737	1,534	16,829		18,363		61,357	-1,155	1.646		1,22,948	8,554	1,31,502	-34,20
	(b)			99 695		00.095	£1 99E	28,039		400		1.09.457	14 1 14	1,08,457	71.00
	(b)			28,625 1,861		1,861	61,385	3,859		408		1,08,457 5,791		5,791	-71,92 -5,60
				30,486		30,486	51,385	31,898		479		1,14,248		1,14,248	-77,61
71,655		90,410	7,625	41,614		49,239	1,00,444	2,86,616	-1,155	34,152	1,237	5,60,943	15,283	5,76,226	84,710
16,042	2,45,9711	5 64 90g	21,122	2,12,347	_	2,83,469	1,40,388	7,80,919	-1,153	1,09,957	6,840	18,35,416	1,07,517	19,42,933	6,20,214

employed in collection of revenue.

IIC.

STATEMENT SHOWING THE FINANCIAL RESULTS OF IRRIGATION WORKS IN BENGAL FOR 1896-97, BASED ON ACTUAL RECEIPTS.

Principal Results of Operations for the year ended 31st March 1897.

	Direct and		Working	Net revenue excluding	f net reve- pital out- of the year.	st at 4 per cent. direct capital commencement ear and 2 per on outlay during rear.	AFTER P	REVENUE AYING IN- ON DIRECT OUTLAY.	EXCESS CONCLUDING ON DIRECT OUT	CANTEREST
IRRIGATION WORKS.	indirect d	irect and e		charges for interest).	Percentage of net reve- nue on capital out- lay to end of the year.	Interest at 4 per on direct cs at commenc of year and seent, on outlay the year.	Amount.	Percentage on total sum at charge.	Amount.	Percent- age on total sum at charge.
1	2	3	4	5	6	7	8	9	10	11
Major Irrigation Works.	Rs.	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.	Rs.	
In operation.	26,14,942	90,946	40,191	50,755	1.94	1,01,930			60,576	198
In progress. Orissa Project	2,62,37,029	4,72,947	4,95,743	-22,796	deficit '08	10,25,946			10,48,742	1
Midnapore Canal	84,60,252	2,78,667	2,33,309	45,358	.23	3,30,908			2,85,550	3.37
Sone Project	2,68,97,368	10,59,645	5,97,464	4,62,181	1.71	10,39,825			6,77,644	2.14
Total	6,42,09,591	19,02,205	13,66,707	5,35,498	-83	24,98,009			19,62,511	\$05
MINOR WORKS AND NAVIGATION.										. 3
In operation.	0.00.759	934	11,934	- 11,000	deficit					
Saran Project	6,96,753				3.21			1		
Calcutta and Eastern Canals.	59,55,328	4,39,938	2,30,759	2,00,110						
Nadia Rivers	•••	93,474	1,30,818	- 37,344						1
In progress.				1	deficit					104
Orissa Coast Canal	44,98,290	86,141	87,783		-03				- "	100
Gaighatta and Bux Khals.	and the second	3,820	684	3,136						
Abandoned or held in abeyance.										
Tirhut Project .	6,06,075									
W. 19	1,57,780			-		-				
Total .	1,19,14,220	6,24,30	4,61,97	8 1,62,329	1.3	6				

IIIC.
DEMANDS AND REALIZATIONS DURING THE YEAR 1896 97.

	Balance of demand unrealized at com- mencement of the year.	Demands of the year.	Total.	Deduct remissions not including eash refunds.	Net total.	Deduct amount un- realized at end of the year.	Actual receipts of the year.
1	2	3	4	5	6	7	8
Major Irrigation Works.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Orissa Project	34,343	4,62,957	4,97,300	18,486	4,78,814	4,597	4,74,217
Midnapore Canal	10,124	2,84,799	2,94 ,923	3,727	2,91,196	11,439	2,79,757
Tidal Canal		90,916	90,946		90,946	•••	90,946
Sone Project	22, 993	10,56,633	10,79,626	5,505	10,74,121	9,428	10,64,693
Total	67,460	18,95,3 35	19,62,795	27,718	19,35,077	25,464	19,09,613
Minor Works and Navigation.							
Saran Project		7,690	7,690	120	7,570	6,266	1,304
Orissa Coast Canal	•••	86,259	. 86,259		86,259		86,259
Calcutta and Eastern Canals		4,40,064	4,40,064		4,40,064		4,40,064
Nadia Rivers		93,474	93,474	•••	93,474		93,474
Gaighatta and Buxi Khals		3,820	3,820		3,820		3,820
Eden Canal	33,883	32,981	66, 864	3,255	63,609	26,518	37,091
Total	33,883	6,64,288	6,98,171	3,375	6,94,796	32,784	6,62,012
GRAND TOTAL	1,01,343	25,59,623	26,60,966	31,093	26,29,873	58,248	25,71,625

Note -Refunds of revenue have not been deducted from the actual receipts of the year.

IV

STATEMENT SHOWING THE FINANCIAL RESULTS OF IRRIGATION WORKS IN BENGAL

Principal Results of Operations for

				REVE	NUE A	SSESSE
	Capital out-				DIREC	T ASSESSE
IRRIGATION WORKS.	lay (direct and indirect) to end of the year.	Occupier's water- rates.	Owner's rates.	Plantations.	Water-power.	Navigation.
1	2	3	4	5	6	7
MAJOR IRRIGATION WORKS.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Orissa Project	2,62,37,029	2,63,420		2,998		1,95,418
Midnapore Canal	84,60,252	1,05,661		28		1,51,176
Hijili Tidal Canal	26,14,942			30		89,511
Sone Project	2,68,97,368	11,24,449		2,958	1,347	71,686
Total major irrigation works	6,42,09,591	14,93,530		6,014	1,347	5,07,79
MINOR WORKS AND NAVIGATION.					*	
Works for which Capital and Revenue accounts are kept.						
Saran Project	6,96,753	6,416		8		
Orissa Coast Canal	44,98,290					83,856
Calcutta and Eastern Canals	59,55,328			•••		4,26,425
Total	1,11,50,371	6,416		3		5,10,281
Works for which only Revenue accounts are kept.						00.000
Nadia Rivers					(10.60m)	93,392
Gaighatta and Buxi Khals	•••					3,800
Total					100.**	97,19
Works for which neither Capital nor Revenue accounts are kept.				e de la composición del composición de la composición del composición de la composic		
Eden Canal	•••	60,080			,	
Madhuban Canal	0.00	•••	•••			
Total	de de la companya de	60,080		3.7**		0.07.475
Total minor works & navigation	1,11,50,371	66,496		3	686 ***********************************	6,07,47

N.B.—The assessed revenue means the revenue assessed on the irrigation of the year independently of whether the demand is given in column 3

FOR THE YEAR ENDED 1896-97, BASED ON ASSESSMENTS OF THE YEAR. the year ended 31st March 1897.

URING	THE YI	EAR.				nses eot).	revenue	capital of the
Miscellane- ous.	Total.	Refunds of revenue.	Gross assessed revenue,—less refunds.	Indirect revenue Land revenue due to operations of canals	Grand total.	Working expenses (direct and indirect).	Net assessed reve of the year.	Percentage on cal outlay to end of year.
8	9	10	11	12	13	14	15	16
Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	*
30, 342	4,92,178	1,270	4,90,908		4,90,908	4,95,743	- 4,835	deficit. 0.01 profit.
24,896	2,81,761	1,090	2,80,671		2,80,671	2,33,309	47,362	·056 profit.
1,405	90,946		90,946		90,946	40,191	50,755	1.94
32,656	12,33,096	5,048	12,28,048		12,28,048	5,97,464	6,30,584	profit. 2·34
89,299	20,97,981	7,408	20,90,573		20,90,573	13,66,707	7,23,866	profit. 1·12
1,248 2,403	7,667 8 6,2 59	370 118	7,297 86,141		7,297 86,141	11,934 87,783	- 4,637 - 1,642	deficit. 0.66 deficit. 0.03 profit.
13,639	4,40,064	126	4,39,938		4,39,938	2,30,759	2,09,179	3.51
17,290	5,33,990	614	5,33,376		5,33,376	3,30,476	2,02,900	profit. 1.81
82 20	93,474 3,820		93,474		93,474 3,820	1,30,818 684	- 37,344 3,136	
102	97,294		97,294		97,294	1,31,502	- 34,208	
316 100	60,396	556	59,840 100		59, 840	1,08,457 5,791	- 48,617 - 5,691	
416	60,496	556	59,940		59,940	1,14,248	- 54,308	
17,808	6,91,780	1,170	6,90,610		6,90,610	5,76,226	1,14,384	

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STATEMENT OF TRAFFIC ON CANALS IN BENGAL DURING THE YEAR 1896-97.

Particulars.	Orissa Canals.	Midnapore Canal.	Hijili Tidal Canal.	Sone	Calcutta and Eastern Canals.	Orissa Coast Canal.	Total.	Nadia Rivers.	Grand Ton
1	2	3	4	Б	6	7	8	9	10
Length of canal open for navigation Miles	2043	72	29	2181	47(a)	102	6731	455	1,128}
RECEIPTS. Tollage—Private boats Rs.	1,53,925	1,50,834	89,058	50,304	4,21,156	82,240	9,47,517	92,717 ₆₃₈	10,40,234
Government boats Rafts Carrying operations or trans- ment	4,337 35,838	3,381	332	6,141 13,561	302	1,311	49,399		16,449 49,399
port services.) boats. Fines and sundries "		8,016	121		4,967	305		37	13,445
Total receipts ,,	1,94,100	1,62,231	89,511	70,008	4,26,425	83,856	10,26,129	93,392	11,19,521
Maintenance charges, in- cluding special navigation establishment,	40,029	12,380	40,191	27,455	2,30,885	87,901	4,38,841	1,30,818	5,69,659
Net revenue of year ,,	1,54,071	1,49,851	49,320	42,551	1,95,540	() 4,045	5,87,288	(-) 37,426	5,41,862
Total number of boats plying cargo No. Ditto ditto passenger Ditto ditto empty boats	12,729 2,110 10,707	29,929 11,631 4,262	13,035 1,221 8,723	3,771 677 2,496	84, 325 10,116 39,184	9,171 2,740 8,105	152,960 28,495 73,477	18.044 15,658 7,782	171,004 44,153 81,258
Total "	25,546	45,822	22,979	6,944	133,625	20,016	254,932	41,484	296,411
Total registered tonuage of boats by canal measurement, cargo Tons Ditto ditto passenger ,, Ditto ditto empty boats ,,	222,814 93,500 70,724	63,331	221,820 16,194 52,581	77,052 12,385 16,128	798,493 9,816 22,587	134,918 26,898 43,879	1,813,730 222,124 291,894	348,401 23,725 62,591	2,162,13 245,86 364,48
Total	387,038		290,595	105,565	830,896	205,695	2,327,748	434,720	2,762,48
Ton-mileage—Up "	6,630,531 7,355,044	3,611,607 5,552,901	1,892,565 3,530,613	2,436,777 2,495,097	1,353,552 7,703,418	2,5£8,839 2,723,204	18,483,871 29,360,277	} Nil	-11
Ditto —Down ,	13,985,575		5,423,178	4,931,874	9,056,970	5,282,043	47,844,148	Nil	
Estimated value of cargo— Up Rs. Down "	38,62,849 60,25,998	60,83,214	20,49,326 48,73,144	23,22,345 32,85,043	64,46,879 5,01,24,342	19,57,885 23,88,835	2,27,22,498 7,37,65,073	88,78,574 1,03,96,868	8,41,01,01
Total ,	98,88,842		69,22,470	55,57,388	5,65,71,221	48,46,720	9,64,87,571	1,92,75,442	11,04,00,00
And the second of the second o			28,075	48,642	65,320	39,548	502,376	48,919	
Number of passengers - Total No. Rafts, feet × feet × feet - Up c. ft.	92,400	7 7,704	32,161 7,827	3,750	14,598	7,183	196,475 2,733,110	237,980	2,901
,, ,, Down ,,	569,17		-	1,836,938			2,929,585	228,670	8,1500
Total ,, Estimated value of rafts— Total Rs.	1,25,93					50,198	6,14,652	42,388	6,679.0
Total Rs. Tollage on boats per ton per mile Pies Tollage on rafts per 100 cubic feet Rs.	2:1	3.2	3.1	1.96	8.9	2·9 3 2·60		Nil 0.28	

⁽a) This length is that of the Calcutta and new cut Canals and Tolly's Nala with 20 miles of Kaorapukur Khal. The Eastern Canals are 316 miles in 100 miles to the Canals are 316 miles in 100 miles and the object route between Kumar and Madhumati river connecting and the object route between Kumar and Madhumati river connecting and the object route between Kumar and Madhumati river connecting and the object route between Kumar and Madhumati river connecting and the object route between Kumar and Madhumati river connecting and the object route between Kumar and Madhumati river connecting and the object route between Kumar and Madhumati river connecting and the object route between Kumar and Madhumati river connecting and the object route between Kumar and Madhumati river connecting and the object route between Kumar and Madhumati river connecting and the object route between Kumar and Madhumati river connecting and the object route between Kumar and Madhumati river connecting and the object route between Kumar and Madhumati river connecting and the object route between Kumar and Madhumati river connecting and the object route between Kumar and Madhumati river connecting and the object route between Kumar and Madhumati river connecting and the object route between Kumar and Madhumati river connecting and the object route between Kumar and Madhumati river connecting and the object route between Kumar and Madhumati river connecting and the object route between Kumar and Madhumati river connecting and the object route between Kumar and Madhumati river connecting and the object route between Kumar and Madhumati river connecting and the object route between Kumar and Madhumati river connecting and the object route between Kumar and Madhumati river connecting and the object route between the object

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DESCRIPTION AND QUANTITIES OF GOODS, &c., CARRIED ON CANALS IN BENGAL DURING THE YEAR 1896-97.

Countity—Term. Value Quantity—Term. Total. Tota	RIPTION OF	10		ORISSA CANALS.				2	MIDNAPORE CA	ORE CANAL.					HIJIEI 7	HIJILI TIDAL CANAL.	AL.				SONE CANALS.	ANALS.		
Countify—Terms. Value. Quantity. Yales. Quantity. Yales. Yales. Quantity. Yales. Yal	00D8, &c.		TOTAL,	-	_	VATE.		Tor	TAE.		PRIT	ATE.		To	TAL.		PRIVATE.	TB.		TOTAL.	1		PRIVATE.	ITE.
10 10 10 10 11 12 13 14 15 15 15 15 15 15 15		Quantity	-Tons.	Value.	C-02	200	Our	untity—Ton	13.		Quantity.	Value.	Ous	T-titin	ons.	Value.	Quantity.	Value.	Quan	Quantity-Tons.	ns.	Value.	Quan-	Value,
17 17 17 18 18 18 18 18		1000		10	9	-	80	6	10	п	12	13	12	15	16	17	18	19	20	- 12	81	83	23	23
1,400 1,40		(3413)		_	Tons.	B.	The	-	Total	D.	Tome	9		-	E	0-	E	1	-		1			
Column C								-	Total		1048.	DAS.	ob.	DOWE.	Total.	Ins.	Tons.	RS.	Up.	Down.	Total.	Rs.	Tore	Pe
1,000 1,00	ured.						1,268	174	1,382	20,89,784	1,382	20,89,784	457	i	457	7,39,200	457	7,39,200	451	22	476	00 600		
11 12 13 14 15 15 15 15 15 15 15	pug			1	:	:	1	:	1	:	1	1		1			1		6	04		200	0/8	4,92,830
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	1							845	-	4 70 500	644	7 20 200					1		•	2	10	60,965	81	60,965
13 16 17 18 18 18 18 18 18 18	11	Z.						39,942	-	35,05,187		35,05,187	156	80,520	80,676	46,51,765	80,676	46,51,765	41.2	2.877	64 0	1,845	03	1.845
18 12 12 12 12 12 12 12	1							54,299	-	23,58,511		23,58,511	1	98	989	2,800	26	2,800	451	\$,093	10	3,48,236	4.554	2,06,418
Section 1,000 1,	1								-	13,980	000	13,980	1 1	9 :	9		02	cfe'cI	1	263	-	38,503	2674	1.38.6.3
Second Column Second Colum	11							163	-	6,35,668	3,318	6,35,668	66	99	165	19,750	165	19,750	204	500	-	200	7:	203
10, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12	11									2.89.075	2,485	2,99,675	1,924		1,924	2,11,348	1,024	2,11,348	162	22		25,0,52	Z51	2,15,562
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	1		2					8,869	-	3,24,727	4,135	3,24,727	871	13	380	19,336	390	78,025	7 6	4,700	147	6,31,044	4,704	5.31.044
150 150						4		139	-	9,46,793	10,567	9, 46, 793	8,839	0	3,834	4,18,139	3,835	4,18,139	6.391	186	K 480	100		100
Second S	1							9 844	-	1,60,423	109	1,60,423	1,009		3.008	1 91 418	1 000		22	22		12,933	0,450 NO	5,55,736
Signo Sign								17	-	1,56,357	755	1,56,357	1,694	16	1,710	3,21,880	1,710	3.21.380	1 178	1,232	-	80,316	1018	1.80,306
15 15 15 15 15 15 15 15	meous							7,657	-	42,276	10,150	42,276	683	250	888	7,101	10 555	7,101	333	-	2,853	67 955		1,06,710
15 19 19 19 19 19 19 19	1							104	-	47,297	581	47,297	233	080'8	233	19,507	232	19.507	8,787	-	-	21,38,455	1323	16,26,920
Tons	11							860	-	2,364	427	2,364	13	83	36	265	989	245	41	120	-	27,474	4,183	1,16,424
TONS 44,022 74,456 118,467 88,88,82 118,467 88,88,82 118,467 88,88,82 118,467 88,88,82 118,467 88,88,82 118,467 88,88,82 118,467 88,88,82 118,467 88,88,82 118,467 88,88,82 118,467 88,88,82 118,467 88,88,82 118,467 88,88,82 118,467 88,88,82 118,467 88,88,82 118,467 88,88,82 118,467 88,88,82 118,467 88,88,82 118,467 88,468 8	03				91		13,767	198	13.663	1.01.701	13,862	1.01.701	2.616	5 :	2,616	18,390	2,616	18,890	1,238	_	1,2.9	17,658		17.558
Tons	11	-				•	7 :	436	487	41,725	437	8 61 811	1	855	856	90,831	856	90,831	2000	3 :	2,033	40,104		47,796
Co. ft. C. ft.	-		-	1		1	-	1	1	100,000	1	2001001		1	1	1	1	:	2	1	44	,72,000	*	2,72,000
Co. ft. Co.	suoT	_		_			52,334	_		39 00 920	148 549	99 00 080	14.749	818 10	108 078	69 99 470		-					T	1
C. ft. C						1	1	1	T			- Contactor			1	1	106,076	07,22,910	20,340	22,7334	49,079, 55,	55, 57, 388	47,5651	156,71,08
Co. ft. Co.																								
101,916 216,881 318,747 91,886 518,747 91,886 2,587 19,09 21,686 25,124 21,086 25,124 19,489 6,362	10.	. ft.	2					207					-											
Secretary Secr	1		-				2,587	_	C. 75.	461 104	S. C.	95.194	-	C. 14,	O. ft.	30 845	0. ft.		Tons.	Tone. T	Tons.		Tons	
The state of the	. broad gauge						1	_					-				25,791	30,840	13	-	83		9	173
\[\begin{cases} \begin{cases} \text{S34,233} & 382,710 \\ \text{No.} & \text{S1,200} \\ \text{S24,666} & 334,233 & 382,710 \\ \text{S21,000} & \text{S21,000} \\	s, metre gauge		Vis.		,	1		1	;	:	1	1	:	:	:	:	1 :	1 1	80	821		9 00%	27.0	565
28,486 334,233 385,719 No.				1	1	11		-	: :	: !	1 1	: 1	1:	1 :	: :	1 1	:	:	1	_	403	6,696	107	6.696
22,450 38,253 382,719	1						1,568	-	161,797	1,45,979	161,797	1,45,979	:	1	1	:	1 :	1 :		852		0 745	3,683	30,124
2,700 32,450 31,00 3,470 3,640 79,413 82,667 6,204 82,967 6,204 12,725 1,475 1,475 130,402 221,105 33,140 33,150 3,150 3,150 3,150 3,150 3,150 3,150 3,100	5			_	-			1	:	1	:	:	:	1	1	i	1		00			5,913	488	8,745
130,402 251,466 51,456 52,156 52,156 52,156 52,256 52,156	~ "			-	~	_	3,540	_	82,967	6,204	82,967	6,204	12,725	1,475	14,200	1,805	14,200	1,805	17	8,585	8.602	14 911	e Groo	6,010
130,402 251,004 631,406 3.10.04 118,487 (61,406) 3.0.16.17 (7,704 256,748) 1,77,307 (2064,440) 1,27,307 (2	1		1	1			1				1	:	1	1					200			1	200%	1,14,211
2,700 37,450 35,150 7 1,25,035 35,150 7 1,25,035 7 1,05,14,177	raft (0. ft.		1	1-		1	120	÷	1	1		T	100	100 %	1	1	-	1	+	:	:	1		1
44,032 74,455 118,467 118,467 118,457 118,457 (52,324 96,226 148,542) 1,53,78,537 (148,542) 1,43,762 91,33,78,237 (148,542) 1,53,78,			- 1	5		-		_	5 mar. 2000		266,002	1,77,307 }	*01.00	1201	100'00	33,650	39,991	52,650	33	83	89	1.79.858 5 1	15,856	
2,700 32,450 33,150 1.00,14,777 85,150 1.00,14,177 7 7,704 285,745 286,449 1.33,78,237 266,449 1.33,78,237 32,104 7,527				_	1	1	- 50 834	-	AD E403	1	100000	T	+	1	100 000	1		1	-	0.0	21	~	^	1,79,453
					~	1,00,14,177	7,704	-	1,1	~	-44	~		1	~	89.65.120	39.991	69.55.120	2	36	79.	-	49,079;	
					00,130			-		7	· .	3	202	10	1	7	1				100	182,16,10	_	57,87,241

IID—concluded.

DESCRIPTION AND QUANTITIES OF GOODS, &c., CARRIED ON CANALS IN BENGAL DURING THE YEAR 1896-97.

			ORISSA CO.	ORISSA COAST CANAL.		20.00		CALCUTTA	JITA AND	AND EASTERN CANALS.	ANALS.				NADL	NADIA RIVERS.		
DESCRIPTION.		To	TOTAL.		PRIVATE.	TB.		To	TOTAL.		PRI	PRITATE.		To	TOTAL.		PRI	PRIVATE.
	õ	Quantity-Tons.	18.	Value.	Quantily.	Value.	Quan	antity-Tons.	oğ.	Value.	Quantity.	Value.	Ö	Quantity-Tons.	ns.	Value.	Quantity.	Value.
	28	22	88	SS	30	31	35	83	58	298	98	37	38	88	40	15	42	43
BOAF TRAFFIG.	Up.	Down.	Total.	Es.	Tons.	Rs.	Up.	Down.	Total.	Bs.	Tons.	Rs.	Up.	Down.	Total.	Rs.	Tons.	Bs.
Woollen goods, raw and manufactured	487	9 ;	443	5,34,990	443	5,34,990	: 1	248	248	1,09,592	248	1,09,592	11	- 20	20	3,289	8	8,289
Bice and tans	8,129 126	45,648	86,777 741	22,03,804	741	15,600	6,774	141,149	147,903	1,78,98,673	147,903	1,78,98,673	4,153	8,407 34,830	53 12,560 39,581	12,48,795	53 12,560 39,581	1,113 12,48,795 29,47,496
11	11	3 3	E 13	7,900	3 2	2,900		7010	107	61,017	107	61,017	11	* ;	* :	5,300	4	2,300
Oils oilseeds	2,356	9	2,363 61	2,61,795	2,365 61	2,61,735	8,613 75	8,330	8,243	11,53,825	8.243 8.243 8.465	11,53,825	3,058	9.197	3,062	4,10,845	3,062 290,01	4,49,893
Salt Est	2,364	120	389	19,373	2,484	2,58,263	1,411	12,308	13,719 62,997	90,30,499	13,719 62,897	20.50,499 61.73,975	13,143	3,262	13,143	3,54,412	5,499	3,54,413
Obsecto	1,007	n n	1,024	1,08,085	1,024	1,08,085	165	610	6,410 510 1,073	1,34,800	510	1,38,560	**82	348	377	91,872	377	91.872 52,353 4.40,783
Building materials Timber	1,635	1,134	2,789	2,32,464	13) 8,789	2,33,464	4,687	100,145	104.470	11,17,840	104,470	11,17,840	20,937	32,057	8,162	83,68,432	8,162	83,68,432
Firewood	998		1,011	8,715	1,011	8,715	4	126,053	126,130	9,53,537	126,130	9,53,537	136	225	363	2,020	363	2,010
Coal and coke	2,916	91 8 808 1	2,932 367	39,642 32,975 3,96,000	367	32,642 32,975 3,06,000	25,263	12,735	87,898 110,683	1,54,95,465	37,998	2,87,248	8,835	15,294	9,069 15,298	1,32,253	9,069	1,32,253
Total boat traffe, Tons,	22,387	45,127	67,514	43,46,720	67,514	43,46,720	92,759	628,924	721,683	5,65,71,221	721,683	5,65,71,221	61,454	107,996	169,450	1,92,75,442	169,450	1,92,75,442
RAPT TRAPPIC,																		
Square timber C. It.	2,202	81,198	53,400	48,520	33,400	48,520	14,598	8,517	18,115	45,285	18,115	45,285	655	6,325	5,380	10,760	6,380	10,760
Sleepers, broad gauge	111	13	11	1		n	11	11	111	111		•	11	11	11	11	11	11
Poles	11	1 1	3,		11	11	1.1	1,1		LII	11	.11	11	11		11	1.1	11
Bamboos	4,580	12,008	16,988	1,678	16,988	1,678	.11	27,451	:27,451	8,424	105,72	3,424	1.1	218,350	218,350	21,748	218,350	21,748
Total-raft traffic, C, ft.	7.189	43.206	80.388	50 108	EO 288	50.198	14 508	80.068	45.800	2002 370	42 000	002.00		900 000	1000	900 07	020 020	200 07
	22.887	45,197	67.514.5		67 514.3		09 750	498 984	721.6863	200	1	90,700	000	421,700	223,079	82,000	220,010	
CHASE TOTAL C. ft.	7,182	43,206	60,388 5	43,96,918 }	50,388	43,96,918	14,598	80,968	45,566}	5,66,19,930 {	45,568	\$ 2,66,19,930 {	61,454	107,996	169,450	3 1,93,17,830 }	169,450	1,93,17,830

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STATEMENT OF AREAS IRRIGATED BY IRRIGATION WORKS IN BENGAL DURING THE YEAR 1896-97.

		AREA	S IRRIG.	ATED IN	ACRE	3.		AVERAG	GET PEI	HARGE,	CUBIC			TED PER	
NAME OF CANAL.					200	CRO	OPPED.	Ат н	EAD.	Ulli	ZED.	DISCHA		UTIL	IZBD.
Applied to the second s	Kharif.	Rabi.	Total.	Flow.	Lift.	Area irri- gated.	Per- centage of total area.	Kharif.	Rabi.	Kharif.	Rabi.	Kharif.	Rabi.	Kharif.	Rabi
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
ORISSA CANALS.						1						Take being			l se se
Tendrapara Canal and its branches Taldunda ditto ditto High Level Canal, Rauge I	72,973 45,338 20,226	4,591 76 319	77,564 45,414 20,545	77,564 45,414 20,545	::	=	:	988 460 319	585 259 134	870 403 187	441 165 26	:::		=	
Total Mahanadi Series	138,537	4,986	143,523	143,523				1,767	978	1,460	632				900
High Level Canal, Range II Ditto ditto III Jajpur Canal	2,743 24,246 6,222	341 2,310 5,663	3,084 / 26,550 11,885	3,084 26,556 11,885	::	:	::	15 149 32	2 105 150	15 147 28	2 105 133				-
Total Brahmini-Byturni Series	33,211	8,314	41,525	41,525				197	257	190	240				
Total Orissa Canals	171,748	13,300	185,048	185,048		-		1,984	1,235	1,645	872			*	•
MIDNAPORE CANAL.	i de											7			72.00
Inder Midnapore weir Under Panchkura weir Idal Reaches, Banges I and II	56,334 7,763 1,086		56,334 7,763 1,086	56,334 7,749 1,086	14	=	=	242·37 34·04	51.42 11.55	217.65 30.58	47.76 4.48	232:42 228:05		258*82 253-85	; ;
Total Midnapore Canal	65,183		65,183	65,169	14									***	***
iden Canal	19,044	2,250	21,294	21,294			35	410'73	196 20	209'13	45'25	46 36	11:46	91:06	49.72
SONE CANALS.		1				3		1 100							
Vestern Main Series	82,366 234,575	23,879 191,511	106,245 426,086	101,244 404,786	5,001 21,300	::		1,523 3,701	478 2,149	1,379 3,327	372 1,794	53.97 63.38	49°95 89°11	59·73 70·50	64.19
Total Sone Canals	316,941	215,390	532,3311	506,030	26,301			5,227	2,627	4,706	2,166	60'64	81*99	67:34	99.44
aran Canals		4,080	4,080		4,080					No d	ischarge	-	4.55	21 01	69 49

Not filled in, as about 30 per cent. of the rice was not irrigated till the middle of October, and the areas of rabi are so small that the results obtained are of no value would only mislead.

7. Exclusive of 23,825 acres of hot-weather irrigation consisting of 21,438 acres flow irrigation and 1,387 acres lift irrigation.

IIE.

STATEMENT SHOWING THE INCIDENCE OF WORKING EXPENSES AND ASSESSED WATER-RATES ON CANALS IN BENGAL DURING 1896-97.

	the year cubic feet	WATER-	RATES	ASSESSED 1	DURIN	(G 1896-97.	mo trom	direct and	ng the	E	ORKI KPENS	NG ES.	OCCUPIE (WATER	R'S RATES	RATES	WATER. DIRECT.		
NAMB OF CARAL.	Average discharge of at canal head in o	Occupier's rates (water-rates).	Owner's.	Total, direct.	Indirect.	Total of direct and indirect.	Gross assessed revenue all sources.	Working expenses, dir	Acres irrigated during	Per cent, on gross revenue,	Per acre irrigated.	Per cubic foot per second of discharge.	Per acre irrigated.	Per cubic foot per second of discharge.	Per acre irrigated.	Per cubic foot per second of discharge.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
SAJOR IRRIGATION WORKS.		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Acres.		Ī		1			1		
rissa Project didnapore Canal lijili Tidal Canal one Project	1,277 106:05 2,866	2,63,420 1,05,661 11,24,449	::::	2,63,420 1,05,661 11,24,449	::	2,63,420 1,05,661 11,24,440	4,90,908 2,80,671 90,946 12,28,048	4,95,743 2,33,309 40,191 5,97,464	185,048 65,183 555,156	100°98 83°12 44°10 48°65	2.67 3.57	388°20 22°00		206-28 996-32 392-34	1.27 1.62	206°28 996°32 392°84		
Total		14,93,530		14,93,530		14,93,530	20,90,573	13,66,707	8,05,587	65'37	1.69			·				
MINOR WORRS AND NAVI- GATION.						es system												
aran Project rissa Coast Canal alcutta and Eastern Canals adia Rivers alghatta and Buxi Khals den Canal adduban Canal	: !!!!!!!	6,416		6,416 60,080	11111111	6,416	7,997 86,141 4,39,938 93,474 3,820 59,840	11,934 87,783 2,30,759 1,30,818 684 1,08,457 5,791	4,080 21,294	163-54 101-90 52-45 139-95 17-90 181-24 57-97	2.92		1.67		1'87	1.41		
Total		68,496		66,496		€6,496	6,90,610	5,76,256	25,374	83.43								

Note A.—In this table the water-rates shown as assessed during the year are the amounts for which occupiers have rendered themselves liable in return for canal alors supplied during the year, and include some demands which were not alegally recoverable, and others of which the assessment papers were not completed till after the Rote B.—Refunds of revenue have been deducted from "Gross assessed revenue from all sources.

IIIE. STATEMENT OF QUANTITY AND VALUE OF CROPS IRRIGATED IN BENGAL DURING THE YEAR 1896-97.		
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	ORISSA	ORISSA OANALS.	MIDNAPORE CANAL,		3.8	18.1				ANALS.	TOTAL.	I.
DESCRIPTION.	Area irrigated.	Estimated value.	Area irrigated.	Estimated value.	Area irrigated.	Estimat- ed value.	Area irrigated.	Estimated value.	Area irrigated.	Estimated value.	Area irrigated.	Estimated value.
1	es.	8	4	5	9	2	8	6	10	п	123	13
	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.	Acres.	Rs.
nd orchards	87	13,050	i		0.050		129	3,992	:		216	17,043
Wheat	_i	90,400	::	! !	2,290	006,500	67,838	30,53,641	561	1,080	64,174	30,76,081
	184,029	66,25,044	64,193	31,45,457	19.044	13,38,000+	22,730 303,049	9,86,496	609	29,097	23,339	2.88.77.237
Cereals Maize		:	:		:	: :			:			
Juar		:	:	:		:	:		:	::	***************************************	
Miscellaneous	: :		:		: :	: :	25.672	4.40,450	685	27.400	26,357	4.67.850
•		•	•		:	:	28,771	15,52,186	154	6,314	28,925	15,58,500
Pulses { Peas		1 475	:		:	:	7 630	46.900	262	6,550	262	6,550
Fodder crops Grass, lucerne		10	:	11	::	: :	24	720		0.000	25	730
	115	3,450			:	:	8	09	:		117	3,510
Dyes Turmerie. &c.		10,440	:	:	:	:	1,736	43,400	883	44,150	2,967	97,990
(Opium, &c.	1	1	: :		: :	::	2,122	59,920	255	10,455	2,377	70,375
Drugs Drugs			:	:	:	:	:	6,870	;			6,870
			:	:	:	: :		240	:			7.±0
Mustard		i	: :		::	:	421	10,767	18	360	439	11,127
Oilseeds Castor		30	:	:	;	:	:::		:	0 905	188	930
		930	::	!!	::	::	36,084	10,70,938	244	4,880	36,359	10,76,748
Total	185,048	67,10,879	64,193	31,45,457	21,294	18,72,500	555,156	2,66,62,086	4,080	1,51,726	8:29,771	3,80,42,648
Hot-weather irrigation Land surreptitionsly irrigated	p.	! 	066	48,510	11	::	!!	::	: :		066	48,510
GRAND TOTAL	185,048	67,10,879	65,183	31,93,967	21,294	13,72,500	555,156	2,66,62,086	4,080	1,51,726	830,761	3,80,91,158

IVE.

COMPARATIVE STATEMENT OF IRRIGATION AND RAINFALL FOR THE YEARS 1896-97 AND 1895-96.

	OF TH	OF THE CIVIL DISTRICT.	TRICT.	WOR	WORKS SUPPLYING IRRIGATION.	Culturable	Area at		AR	ARBA IRRIGATED IN	ED IN ACRES.	gs.		RAINFAL	RAINFALL, INCHES.
CIVIL DISTRICT.					e grane e de e	manded by the irrigation		1000	1895-96.		er er	1896-97.	-027		100
	Total area in acres.		Culturable Cultivated area in acres, area in acres.	No.	Name.	works in column 6, in acres.	the works specified in column 6.	Kharif.	Rabi,inclusive of hot-	Total.	Kharif.	Rabiinclusive of hot-	Total.	1895-96.	1896-97.
-	23	8	4	20	9	7	8	G	10	11	12	13	14	15	16
ORISSA CIRCLE.					ORISSA CANALS.							(1) (1) (1) (1)	3-31	100 mg	
٠.	:	:	•	I	Taldanga Canal and	172,335	73,810	24,991	. 681	25,672	45,338	94	45,414	92-99	64.28
	2,469,300	1	1,357,990	11	branches. Kendrapara Canal and	212,650	107,360	869'09	3,298	63,936	72,973	4,691	77,564	61.98	62-23
- Cutting	:::	111	111	HV	branches. High Level Canal, Range I Do. Jo. Jajpur Canal	48,815 10,000 70,000	33,440 10,000 38,500	13,414 743 1,661	445 149 3,335	13,859 892 4,996	20,226 2,743 6,222	319 341 5,663	20,545 3,084 11,885	63.12	60-94 62-03
Total Cattack district	2,469,300	:	1,357,990	V 100		613,860	263,110	101,447	7,908	109,355	147,502	10,990	158,492		:
Balasore	1,200,000	:	566,000	IA	High Level Canal, Range	67,500	40,640	10,104	1	10,105	24,246	2,310	26,556	62.51	71-79
Total Orissa Circle	3,669,300		1,923,990			671,300	303,750	111,551	7,909	119,460	171,748	13,300	185,048		
SONE CIRCLE.					SONE CANALS.							1 2 3			
	3,015,680	:	2,356,000	I	Patna Canal	170,857	166,405	36,733	5,808	42,541	40,815	12,861	53,676	35.39	38-29
	1,328,640	:	1,038,000	п	Ditto	146,450	142,635	36,128	8,957	45,085	41,551	13,211	54,762	36.31	33.61
Shahabad	2,800,000		2,187,500	HI	Arrah Canal Buxar Canal	483,089	329,527 377,833	120,465 68,159	63,009 55,963	183,474	141,569 93,006	92,459 119,684	234,028 212,690	: 1	::
Total Shahabad dis- trict.	2,800,000	:	2,187,500			1,036,995	707,360	188,624	118,972	307,596	234,575	212,143	446,718	37.17	28.85
Total Sone Canals	7,144,320	:	5,581,500		*	1,354,302	1,016,400	261,485	133,737	395,222	316,941	238,315	991,999	;	;
	1,697,920	:	1,326,500	Δ	Saran Canals	000009	30,000		i	:	;;	4,080	4,080	43.42	28-94
Total Sone Circle	8,842,240	i	6,908,600			1,404,302	1,046,400	261,485	133,737	395,222	316,941	242,295	659,236	-	:

OMPARATIVE STATEMENT OF IRRIGATION AND RAINFALL FOR THE YEARS 1896-97 AND 1895-96-concluded.

	Š	Dress Dress	RDTOR	WORK	WORKS SUPPLYING IRRIGATION.		Area at		Ав	AREA IRRIGATED IN	ED IN ACRES.	38.	De la constitución de la constit	RAINFAL	MAINFALL, ANGEL
	20	OF THE CIVIL DISTRICT.	TRICK.			Culturable area com- manded by	present esti- mated as		1896-96.			1896-97.	11 79		
Отть District.	Total area in acres.	Culturable area in acres.	Cultivated area in acres.	No.	Name.	the irrigation works in column 6, in acres.	irrigable by the works specified in column 6.	Kharif.	Rabi,inclusive of hot- weather.	Total.	Kharif.	Rabi,inclusive of hot- weather.	Total.	1895-96.	1896-97.
	•	or.		0	9	7	60	6	10	11	13	13	14	29	16
1	•												200	To the second	
SOUTH-WESTERN CIRCLE.			0000	F	Under Midnspore Weir	98,000	65,000	66 887 7,234	:	56,587	56,334 7,763	f 1	66.334 7,763	48-39	11.09
Midnapore	8,282,800	2,111,600	1,000,100	(II		000,000	- I	1	-	101.00	400 70		44 097		
Total Midnapore dis-	3,292,800	2,111,500	1,869,100			, 123,200	75,000	64,121	:	64,121	180'60	:			
triot.						100	0000	1.180		1,130	1,086	:	1,086	1	i
Hooghly	1,087,360	632,660	464,700	Ħ	Tidal Reaches, Eanges I and II.	7,200	2,000	2					-		
			9 993 800			130,400	000'24	65,251	i	65,251	65,183	:	65,183		
Total Midnapore Canal.	4,380,100	2,198,100	and and a				1000	201.01	1710	20.875	14,659	1,286	15,945	44.43	47.95
Burdwan		:	1,283,800	ΔI	Eden Canal	36,000	25,000	15,180	166	15,346	4,385	₱96	5,343	40.40	3
Hooghly			702,300	•		1	60.000	34,336	1,885	36,221	19,044	2,250	21,294		*
Total Eden Canal	2,813,440		1,986,100		· · · · · · · · · · · · · · · · · · ·	and and		100	1 005	101.472	84,227	2,250	86,477		
Total South-Western	7,193,600	"	4,309,900		*	230,400	137,000	189,681	Tioon						
Circle.	_1	1	000			2.206,002	1,487,150	472,623	143,531	616,154	672,916	257,845	830,761		
GRAND TOTAL	., 19,705,140		13,141,890	mison					,						

No. IF.

STATEMENT SHOWING THE WATER-RATES IN FORCE ON CANALS IN BENGAL DURING 1896-97.

Canals.	Rates.	Different sorts of leases and crops on which the Water-rates are	WA	TE	R-R	ATES	PER	t
		charged.	Flo	w.	1	L	ift.	
ī	2	3	4		1	1.2.10	5	
		Long Leases.	Rs.	Δ.	Р.	Rs.	۸.	P.
	1	For water supplied on a long-term lease between the 16th June and 30th November. For a term of 7 years for each season	í	8	0	1	8	•
	п	For water supplied on a provisiona license for which a permit for a term			0	3		0
DRISSA CANALS	ш	Provided that the rate for leases, whether new or renewals, required for shorter terms than seven years in order to develop the system of block (as per		J		0	U	0
	IV	Rule 7 III) shall be charged Beali lands included in long lease are not exempted from assessment, but no charge will be made for water supplied	1	8	0	1	8	0
	v	to them in the rabi season, that is, up to 25th March	0	0	0	0	0	0
,		only in years of drought Season leases.	0	8	0	0	8	(
		Beasons teases.						
	I	For water supplied for irrigation of rice between the 16th of June and 30th of November	3	0	0		^	
	II	For water supplied for irrigation of dahoa			U	0	U	
	ш	For water supplied for irrigation of cotton, tobacco, huldi, ginger, wheat,	1	8	0	1	8	
	IV	vegetables, indigo and garden produce For water supplied for irrigation of lin-	1	8	0	1	8	
	v	seed, oil-seed and all pulses For water supplied for irrigation of su-	1	0	0	1	0	
Schedule I $<$	VΙ	For filling tank or for manufacturing purposes per 10,000 cubic feet of water supply, also for filling tanks without authority or using water in an unau-	5	0	0	5	0	
	VII	thorized manner	1	0	0	1	0	
	VIII	June	3	8	0	3	8	
		part of the above season, for each watering	1	5	0	1	5	(

SOUTH-WESTERN CIRCLE.

For the Rice Crop.

For water supplied between June and November-whether by flow or lift-

For five-years leases For one-year lease or for water supplied on a provisional license for which a permit for a term of years is not subsequently issued Provided that the leases, whether new or renewals, required for shorter terms than five years in order to develop the system of blocks, shall be charged Otherwise, in addition to the rate of Re. 1-8 an extra rate of 12 annas per acre shall, in the first year only, be charged on leases for less than five and more than one year.

1 8 0 per acre for each season.

3 0 0 per acre.

1 8 0 per acre.

MIDNAPORE CANAL.

For Winter Crops. ... 2 8 0 per acre or per For supply of water, when available ... season. 5 0 0 per acre or such For unauthorized use of canal water ... less rate as may sanctioned by the Deputy Collector.

For supply of water for manufacturing or other purposes Re. 1 to be charged for each 10,000 cubic feet or part of 10,000 cubic feet supplied.

The same charge will be made if water is taken into a tank without authority or used

in an unauthorized manner.

Tanks may be filled with canal water without charge wherever water can be made available without injury to the cultivation dependent on any canal under certain conditions noted in Rule 31.

tulo o1.	The track of the second se	Per	big	ha.	
		Rs.	Α.	P.	
[I.—Long leases entered into before the 1st October 1895, per season II.—Long leases entered into after the 1st 	0	4	0	and Comme
	January 1896, per season	0	5	0	
	III.—Extra charge for long leases entered into during the irrigation season, i.e., between				
T	1st June and 1st October in any year, in				
EDEN	II, for the first year only IV.—Season leases, kharif, per season V.—Single waterings outside the area com-	0	2	0	
CANAL.	TV Seeson leases therif per season	0	8	0	
	V Single waterings outside the area com-		100	g-19-300	
	manded in each watering	0	4	0	
1	VI.—Season leases, rabi, sugarcane and potatoes				
	and other crops	1	0	0	
	Boro rice, per season	0	8	0	
i	WIII II the sized invigation				
_				1	or such lower
	Kharif season	1	0	0)	rates as may be
	Rabi season	2	0	0)	or such lower rates as may be fixed by the Canal officer.
	party of the transfer of the second of the s			1	Canal omcer.

* No rates shall be imposed on lands irrigated without permits beyond the area shown as commanded on the map referred in Rule 1.

SONE CIRCLE.

SONE CANALS.

The following schedules are in force with reference to all leases taken during the year 1895-96 and subsequently:-

SCHEDULE No. I. Leases for a term of years.

Frow or LIFT. FOR WATER SUPPLIED BETWEEN THE 25TH OF JUNE OF ONE YEAR AND THE 25TH MARCH OF THE NEXT. Rate per tenth of a bigha. Rate per Rate per bigha. acre. 3 2 Rs. A. P. 0 2 6 0 2 6 Rs. A. P. 2 8 0 2 8 0 For leases for seven years, all crops 9 for three years

Schedule. No. II. Season Leases (Kharif).

NAME OF CEOP.	The second	11 6,000,000	FLOW OR LI	FT.
TABLE OF CROP.	Date of supply.	Rate per acre.	Rate per bigha.	Rate per tenth of a bigha.
A distribution of the state of	2 2 2	1 / 0 3 /	4	Б
Rice and sugarcane for kharif season only	25th June to 5th October.	Rs. A. P.	Rs. A. P. 2 3 0	Rs. A. P.

Schedule No. III. Season Leases (Rabi).

			Frow.			LIFT.	
TIME OF SUPPLY.	Locality.	Per acre.	Per bigha.	Per tenth of a bigha.	Per acre.	Per bigha.	Per tenth of a bigha.
1	2	3	4	6	6	7	8
15th October to 25th March. 25th October to 25th March.	Water supplied for all crops, including sugarcane from distributaries open for kharif irrigation. Water supplied for all crops including sugarcane from distributaries or parts of distributaries from which rabi irrigation only is allowed.	Rs. A. P. 2 0 0	1 4 0	Rs. A. P. 0 2 0	Rs. A P. 1 8 0	Rs. A. P. 0 15 0	Rs. A. P. 0 1 6

Schedule No. IV. Season Leases (Hot-weather).

		FLOW OR LIE	т.
	Per acre.	Per bigha.	Per tenth of a bigha.
1	2	3	4
For water supplied between the 25th March and the 25th June, or at the option of the applicant, between the 25th of February	Rs. A. P. 4 0 0	Rs. A. P. 2 8 0	Rs. A. P. 0 4 0
and the 25th of May, for all crops. When water can only be supplied for a part of the season, for each watering.	1 8 0	0 15 0	0 1 6

In the case of charges under Schedules I to IV, any smaller area than one-tenth of a bigha will be charged as one-tenth. The bigha contains 27,225 square feet.

SCHEDULE No. V.

For water supplied by volume in the kharif season.

For water supplied between the 1st of September and the 31st of October, four rupees for a calculated discharge of one cubic foot per second for twelve hours. For less than a cubic foot per second or less than twelve hours, a proportionate charge shall be made, but a fraction of less than one-sixteenth shall be charged as one-sixteenth.

4862 SUPPLEMENT TO THE CALCUTTA GAZETTE, DECEMBER 15, 1897.

SCHEDULE No. VI.

For water supplied by volume to fill aharas.

For water supplied between the 1st of November and the 25th of March, one rupee for a calculated discharge of one cubic foot per second for twelve hours. For less than a cubic foot per second or less than twelve hours, a proportionate charge shall be made, but a fraction of less than one-sixteenth shall be charged as one-sixteenth.

SARAN CANALS.

Rates for selling water to any person who may desire to have it for irrigating his

kafa Hala N. H. 11 10 10 10 10 10 10 10 10 10 10 10 10	-	77.7		
	Rs.	A.	P.	
For water supplied between the 1st April and 15th June Ditto from 15th June to 30th October	 1	8	0	
Ditto from 1st November to 31st March				

For water taken without previous application or agreement a further rate of Re. 1 pe acre may be charged in addition to the rates noted above.

Rates for water supplied under individual assessment during the rabi season of 1896-9 and the hot-weather season of 1897 in addition to the rates noted above—

	Rat	big	gha.		
		Rs.	A.	P.	
For indigo irrigated between the 1st November and 31st M Ditto ditto 1st April and 15th July For other crops ditto ditto For opium For rabi crops irrigated between the 1st November and March.		2 4 3 1 0	4 8 0 8 12	() 1 1 1 1	

These rates apply equally to irrigation by lift and flow-

List of Officers in charge of Irrigation Circles and Divisions during the year 1896-97.

Circle or Division.	Name of Officer.	Period of Charge.
1	2	8 - 1 average

SECRETARIAT.

			 From 1st April 1896 to 31st March 1897.
Under-Secretary, Department.	Irrigation	Mr. A. S. Thomson	 " 1st April 1896 to 24th January 1897.
	ditto	,, O. C. Lees	 " 25th January 1897 to 31st March 1897.

SUPERINTENDING ENGINEERS IN CHARGE OF CIRCLES.

South-Western Sone Circle Ditto Orissa Circle Ditto	Circle		Mr. D. B. Horn , W. A. Inglis , R. B. Buckley , W. Connan , W. A. Inglis	::	1011 4 11 10001
---	--------	--	--	----	-----------------

EXECUTIVE ENGINEERS IN CHARGE OF DIVISIONS.

SOUTH-WESTERN CIRCLE.

Nadia Rivers Division	Mr. M. J. J. P. Norman	From 1st April 1896 to 31st March 1897.
Northern Drainage and Em-	Bama Charan Pramanic	, 29th April 1896 to 18th December
bankment Division.		1896.
Ditto	Mr. K. H. Stephen	,, 19th December 1896 to 31st March
	m 25 7 m	1897.
Ditto	" T. M. L. Thompson	, 1st to 28th April 1896.
Circular and Eastern Canals Division.	" P. G. Jacobs	, 1st April 1896 to 31st March 1897.
Cossye Division	,, H. Barlow	Diito ditto.
Balasore Division	" C. A. White	From 1st April 1896 to 20th June 1896
		and from 30th November 1896 to 31st March 1897.
Ditto	" J. Zorab	, 21st June to 29th November 1896.

ORISSA CIRCLE.

Acquapada-Jajpur Ditto Brahmani-Baitarni Ditto		Mr.	J. S. L. Long J. C. Hewitt J. S. L. Long R. E. Carter	:::::::::::::::::::::::::::::::::::::::	From 1st April 1896 to 9th October 1896. " 10th October 1896 to 31st March 1897. " 7th April 1896 to 28th February 1897. " 1st to 6th April 1896 and 1st March 1897 to 31st March 1897.
Mahanadi Division Ditto	::	"	T. H. Clowes M. H. Arnott J. G. St. C. Sedgley	::	## 1897 to 31st March 1897. ### 1896 to 9th November 1896. ### 1897. ### 1896 to 9th November 1896. ### 1897. ### 1896 to 9th November 1896. ### 1897. ### 1896 to 9th November 1896.
Ditto	•	,,	J. G. St. C. Stagley		", Toth to 12th November 1896.

SONE CIRCLE.

Arrah Division Buxar Division Ditto Eastern Sone Division Gandak Division Dehri Workshops Division Ditto	Mr. C. H. DeMello T. Butler A. S. Thomson G. L. Searight H. H. Green H. E. Williamson G. C. Stawell	From 1st April 1896 to 31st March 1897 , 1st April 1896 to 27th January 1897 , 28th January to 31st March 1897 , 1st April 1896 to 31st March 1897 Ditto ditto 1st April 1896 to 15th December 1896 1st January to 31st March 1897 , 16th December to 31st December 1896.
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4864 SUPPLEMENT TO THE CALCUTTA GAZETTE, DECEMBER 15, 1897.

List of Officers in charge of Irrigation Circles and Divisions during the year 1896-97—concid.

CANAL REVENUE OFFICERS.

Circle or Division.	Name of Officer.	Period of Charge.				
1	2	8				
Deputy Collector, Revenue Division, Orissa Canals.	Madhab Lal Babu Ram Sadan Bhatta-	From 1st April 1896 to 31st March 1897. Ditto ditto.				
Deputy Collector, Revenue Division, Midnapore Canals. Deputy Collector, Revenue Division, Sone Canals. Supervisor, Calcutta Canals	charji. Maulvi S. M. Nasiruddin	Ditto ditto.				

Statement showing the Number of Days spent on Duty and on Tour by Superintending, Executive, and Assistant Engineers and Upper Subordinates of the Irrigation Branch during the year 1896-97.

NAME.		Circle or	Division.		BER OF	
				On duty.	On tour	REMARKS.
1	1 (a. 5-15)	2		3	4	5
Superintending Engine	ers.			do-	6.00	
Mr. B. B. Buckley ,, W. A. Inglis	::	There		353 12	173	Assumed charge on 13th April 1896. Transferred to Orissa Circle with effect from 13th April 1896.
" D. B. Horn " W. Connan	::	South-Wester Orissa Circle		365 106	99 18	Transferred to Central Circle with effect from the after
,, W. A. Inglis Executive Engineers.		Ditto		259	118	noon of 15th July 1896. Assumed charge of the Circle on the afternoon of 15th July 1896.
fr. T. Butler		Buxar		200		o m.y 2000.
" A. S. Thomson		1.		63	123	Transferred to Champaran Canals Survey Division or 30th January 1897. Appointed to hold charge of the Division as a temporary depict of the Division as a temporary depict.
, C. H. DeMello		Arrah		205	101	measure during the absence of Mr. T. Butler on special duty from 27th January 1897.
G C Stawell		Gandak		365 365	164 157	
		Dehri Works	hops *	16	1	Transferred on Railway Survey works in connection with
H. E. Williamson		Do		349	139	Familie Meller Works from 1st January 1907
G. L. Searight	:::	Eastern Sone Champaran* Survey Div	Canal	365 63	195 52	Officiated as Executive Engineer from 1st January 1897. Joined the Division on 30th January 1897.
H. Barlow C. A. White	•••	Cossye		365	150	
		Balasore		203	103	Was in charge of the Division up to 20th June 1896 when he availed himself of six months' leave on private affairs granted to him in Bengal Government Notification No. 94 of 4th May 1896. Returned from leave on 29th November 1896.
M. J. J. P. Norman	•••	Do.		162	82	Officiated as Executive Engineer during the absence of Mr. C. A. White on leave on private affairs.
, T. M. L. Thompson		Nadia River Northern Dra Embankmer	inageand	365 28	164 5	Proceeded on 22 months' furlough from 28th April 1896.
ai Bama Churn Pramanic B	ahadur	Ditto		234	129	Officiated as Executive Engineer from 29th April 1896 to
r. K. H. Stephen P. G. Jacobs		Ditto Circular and	Eastern	103 365	41 136	18th December 1896. Joined the Division on 19th December 1896.
M. H. Arnott T. H. Clowes		Canals. Mahanadi		139	66	Joined the Division on 12th November 1896.
G. J. St. C. Sedgley		Do. Do.		223	108	On furlough for one year from 10th November 1906
J. S. L. Long	•••	Brahmini-Byt	turni	37	15	In temporary charge of the Division. Was on furlough from 7th April 1896 to 28th February 1897.
i Annoda Prasad Sircar Sah		Ditto	"	308		Held charge of the Division in addition to his duties as Executive Engineer, Acquapada-Jajpur Division, from 7th April 1896 to 9th October 1896.
	110	Ditto		20		In temporary charge of the Division in addition to his charge of the Kendupatna Subdivision from 9th to 28th February 1897.
r. J. S. L. Long		Acquapada-Ja	jpur	192	173	Transferred to Brahmini-Byturni Division from 10th October 1896.
J. C. Hewitt Assistant Engineers,		Ditto		173	108	Assumed charge of the Division from 10th October 1896.
i Beni Madhab Mitra Sahib		Arrah		249	192	Transferred to Champaran Canals Survey Division which
by Sarada Sandar D.1		Do.		179	98	he joined on 30th January 1897. On sick leave for six months from 23rd April 1896.
bu Saroda Sunder Pal . W. S. Bremner		Do.		247	177	
C. W. Sibold		Do.		276 365	242	On privilege leave for 89 days from 9th April to 6th July 1896.
bu Saroda Sunder Pal		Do.		103		On privilege leave for 15 days from 13th July 1896.
i Nogendra Nath Mukerjee	Sahib	Do.		266	210	Transferred to Arrah Division on 4th August 1896. On privilege leave for one month, with effect from 23rd December 1896. Placed on special duty under the Superintendent, Famine Relief Works, from 13th Janu-
bu Amar Nath Das		Do.		71	18	ary 1897. foined the Division on 10th November 1896. Was transferred to the Gandak Division which he joined on 25th
E. Blaber	1	72			1 class	January 1897.
Beni Madhab Mitra Sahib		Eastern Sone Champaran* Survey.	Canals	365 60	60	On privilege leave for 3 months from 5th December 1896. Was transferred to Champaran Canals Survey Division where joined on 30th January 1897.

It was temporarily created a Famine Relief Division under the Superintending Engineer, Sone Circle.

		41-17 SEC 2017 SEC 2018 SEC 2017	XS-	Powers
NAME.	Circle or Division.	On duty	On tour.	REMARKS.
1	2	8	4	5
Assistant-Engineers—concluded.				
	Cossye		273	and 24 days long to a months and 24 days long.
Mr. F. A. A. Cowley	Balasore	. 81	61	On privilege leave for 2 months and 24 days: official Executive Engineer from 21st June 1896 to November 1896, and transferred to South Dathin Famine Relief Division, with effect from 24th Febru 1897.
	Circular and Eastern Canals.	A STATE OF THE STA	5	Joined 24th November 1896.
" R. C. Edge	Ditto	985	49 220	Transferred to Famine Relief Works, Bihar, on the property of 26th January 1897.
	Do	275	180	Hoon of Marie Sales
Rai Annoda Prasad Sircar Sahib .	Brahmini-Byturni Mahanadi	365	240 11	Principal works lie at head-quarters. Honorary Anis
Ditto	Brahmini-Byturni	. 278	100	Principal works lie at head-quarters.
Sub-Engineers.	Eastern Sone	365	121	Principal works lie at head-quarters.
Rahn Chunder Bhusan Dutt	Gandak	365	28	Ditto ditto
Mr H E Williamson	Dehri Workshops	365	124	Ditto ditto. Omerating Executive Engin
Rabu Tarini Charan Sircar	Arrah	293	157	*
Babu Gopal Chunder Ghose	Cossye*	365	164	Transferred to Darjeeling Division.
Mr. I. J. Atkinson Rai Bama Charan Pramanic Baha	a- Northern Drainage and Embankment.	ge 126	15 94	On 5 days' privilege leave. Honorary Assistant Engi
	Ditto	965	231	Honorary Assistant Engineer.
Rahn Rakhal Das Chatterjee .	Nadia Rivers	805	143	On 60 days' leave.
Rai Rakhal Das Rai Sahib	Acquapada-Jajpur	355	231	On 10 days' privilege leave.
Mr. S. Street	Jangipur Toll Office Circular and Easter Canals.	344	309	On 22 days' privilege leave. Honorary Assistant Egg Honorary Assistant Engineer.
Babu Dakshina Ranjan Mukerjee		365	286	
Supervisors.				
Mr. A. E James		303		
C. M S. Rooke	Gandak	365		
Babu Kanti Chunder Banerjee	Ditto	120	58	
Ditto ditto	Arrah .	139	56	
Babu Rajendra Lal Sircar	Do	365		
" Mohendra Nath Sircar	Commo	365	91	
" Roma Nath Sircar " Krittibas Maiti	Do	365	45	
Suresh Chunder Ganguli	Balasore	322		
Mr. A. E. Hefferman	T.	365	1	
Babu Suresh Chandra Ganguh Ditto ditto	Circular and Easter Canals.	rn 18	-	
ARBUY ALTERIA	Distan	365		Detland
" Lokenath Mitra	Northern Drainag and Embankment.	ge 146	70	On furlough for 5 months from 4th November 1896.
	Mahanadi	365		
Mr. C. A. Marchant	Brahmini-Byturni Acquapada-Jajpur .			
Overseers.	*			
Mr. B. C. Hill		220		[11] [18] [18] [18] [18] [18] [18] [18]
Babu Kali Kumar Roy Ditto ditto	Donne	286		All the works are confined to head-quarters.
. Satya Ranjan Khastigir	Dehri Workshops	309	276	
Aghore Chunder Chatterjee	Ditto	351		
" Kherode Chandra Mukerjee	01-1	111		
Marialan Nath Manuadan	D.	365	179	
" Jagat Narain	Do.	365		
Jadu Nath Das	D.	365	The second second	그 사이를 "가지하게 모르고 하다가 그 맛요? 사고가 오른 이렇게 되는 사람들이 얼굴하게 하는 것이 되지 않아 보다는 것이다.
" Sreeram Chunder Dutt " Mohit Kumar Chatterjee	TO.	365	5 5	5 Do.
" Surendra Nath Bhattachary	a Balasore	365	5 239	9
" Mohendra Nath Banerjee	Ditto	268	The state of the s	
" Sarat Chandra Sur	Nadia Rivers	343	-	The second secon

SUPPLEMENT TO THE CALCUTTA GAZETTE, DECEMBER 15, 1897.

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Name.		Circle or Division.	E-65 NORTH STREET	ER OF	The state of the s
Nan.		Cheie or Division,	On duty.	On tour.	Remarks.
i I		2	3	4	5
Overseers—concluded.				uv ees	
Babu Hari Madhab Bhaduri		Nadia Rivers	365	141	
Kedar Nath Banerjee		Ditto	143	90	
" Mohini Mohan Lahiri	***	Northern Drainage	365	173	
		and Embankment.			
"' Jagat Bandhu Bagchi	•••	Ditto	143	32	Joined on 9th November 1896. Transferred to the 1 Calcutta Division.
" Rajendra Nath Mukerjee		Circular and Eastern	208	111	
Peary Charan Gupta		Ditto	145	73	
" Kshetra Mohan Palit		Ditto	365	255	Held charge of No. 4 Subdivision in addition to his duti- for 12 days.
" Soshi Bhusan Mazumdar		Mahanadi	365	221	
Bankim Krishna Ghose		Do	288	77	Principal works lie at head-quarters.
" Upendra Nath Mukerjee		Do	135	83	
" Krishnadhon Banerjee		Acquapada-Jajpur	365	237	
, Bankim Krishna Ghose		Brahmini-Byturni	77	46	
" Saroda Charan Mitra		Ditto	291	129	Transferred to Famine Relief Works, Bihar.
" Kali Narayan Sen	***	Ditto	311	120	Ditto ditto.
" Kalidhone Bhattacharya	• • • •	Acquapada-Jajpur	306	155	
" Upendra Nath Mukerjee	•••	Ditto	230	165	
			100 11 11	P	
			1	13.35	

4868 SUPPLEMENT TO THE CALCUTTA GAZETTE, DECEMBER 15, 1897.

Statement showing Inspections of Offices by Superintending and Executive Engineers during the year 1896-97.

	DIVISIONAL	OFFICES.	SUBDIV	TISONAL CES.	
NAME OF OFFICER.	Number in circle.	Number inspected during year.	Number in circle.	Number inspected during year.	REMARKS
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2	3	4	6	6
		1 1 10		Mark Control	
Superintending Engineers.					
Mr. R. B. Buckley, Sone Circle	- 60	4	27	4	* Inclusive of Revenue Divi-
	6*	8	26	20	sion and exclusive of the Champaran Canals Survey
" D. B. Horn, South-Western Circle " W. Connan, Orissa Circle	40	4*	16	8	Division.
" W. Connan, W. A Inglis, Orissa Circle	100				
Executive Engineers.					1,000 (c) 1,000
Mr. T. Butler, Buxar Division			5		
" A. S. Thomson, Sone Divi-			6		
sion			6	1	
C. H. DeMello, Arrah Division G. C. Stawell, (Dehri Work-	3			+	
,, G. C. Stawell, Shops Divi-	{ ···		5		
H. E. Williamson, (sion.	,		5		
" H. H. Green, Gandak Division " T. Butler, Champaran Canals Survey					
Division.			5		
J Zorah			6	4	
H Barlow, Cossye Division P. G. Jacobs, Circular and Eastern			5		
Conale Division.	1		1		
. T. M. L. Thompson, Northern Drain	1)		1		
Rai Bama Charan Pra- (Embankment			4		
Division.	1)		6		
Mr. M. J. J. P. Norman, Nadia Kiver	,	***			
Division. M. H. Arnott,	1.	36	8	1	
T. H. Clowes, (Mahanadi Divi	. }		0	4	
" G. J. St. C. sion. Sedgley.	1				
R. E. Carter,			5		
J. S. L. Long, (Brahmani-Byturi	n }				
Sircar, Sabib.	ľ		5		
Mr. J. S. L. Long, Acquapada-Jajpo	T }		b		
" J. C. Hewitt, 3 Division.	,	1 191			

1,900

29,453 (11th to

15,752 (4th to 6th

3th Dec.

1897).

9,32,520

8,93,221

8,57,720

9,64,052

9,52,758 1897.)

9,22,778

9,01,002

:

Grand Total of Stocks

1897).

1896).

29th Nov. (27th to

22nd Nov.

(13th to 15th Nov.

7,046 (6th to 8th

30th Oct. to 1st Nov.

40,456 (12th to 14th Dec.

By Canal returns

Nov. 1897

1897.)

14,100 (20th to

1897.)

AND AROUND CALCUTTA STOCKS OF RICE IN

No. 3405 Stats. - The following is published for general information.

Secy, to the Gort. of Bengai. M. FINUCANE,

Statement showing the Stocks of Rice in and around Calcutta during December 1897.

2nd week of Dec. 1897. Mds. 95,000 11,300 44,502 (on 11th Dec. 1897). 48,765 (11th to 13th Dec. 60,500 2,40,000 2,50,000 49,000 Returns not 1,02,100 8,09,800 received. 1897). 55,600 2,40,000 2,50,000 48,400 7,98,495 (on 4th Dec. 1897). 39,679 (4th to 6th 86,000 1,745 1st week of Dec. 1897. Mds. 10,600 39,295 1,04,700 33,035 (27th to 29th Nov. 1897). (on 27th Nov.1897). 6th week of Nov. 1897. Mds. 80,000 11,300 51,100 2,40,000 2,50,000 36,800 1,400 48,987 97,900 1,300 7,69,800 Nov. 1897) 27,015 (20th to 2,40,000 2,50,000 75,787 (on 20th 4th week of Nov. 1897. 1,21,500 40,900 2,800 8,47,150 1,23,000 22nd Nov. 1897.) Mds. Stock in hand as compiled on-92,515 (on 13th Nov. 1897). 31,473 (13th to 3rd week of Nov. 1897. Mds. 1,13,500 13,500 15th Nov. 1897.) 46,900 2,50,000 8,22,447 1,19,700 1,747 1,600 2,50,000 1,02,500 11,800 1,12,600 33,300 3,622 8,09,872 37,366 68,494 Nov 1897) Nov. 1897) 6th to 8th 2nd week o Nov. 1897. (on 6th 85,743 (on 30th Oct. 1897). (30th Oct. to 1st Nov. 1897). 2,40,000 25,203 3,178 000,90,1 94,700 12,8001,250 29,300 7,82,928 1st week of Nov. 1897. 1896). 17,823 (12th to 14th Dec. 40,700 2,40,000 2,50,000 8,33,958 66,000 70,780 18,078 5,401 (on 12th 2nd week of Dec. 1896. Mds. 1,45,600 1896).)ec. Ultadanga Chitpur, Golabari, Kumartuly, Hatkhola, and Culpi Ghat... On boats not yet unloaded— By Port Commissioners' returns Tollygunge, Chetla, Kidderpore, and Munshiganj Baidyabati, Nawabganj, Bhadreswar, and Chandernagoret ... On Railway premises on both sides Posta, NAMES OF MARTS. Total Other retail shops (1)
Ramkristopur* of the river. Minor bazars (1) Pathuriaghatta, Baliaghatta

This mart is in the Howrah district, and the figures have been obtained by local enquiry.
 Figures furnished by the Collector of Hooghly.
 Ditto by the Railway authorities.
 Estimated as a constant quantity.

STATISTICAL DEPARTMENT, The 14th December 1897.

Secretary to the Government of Bengal. M. FINUCANE,

STATISTICS OF THE SEA-BORNT TRAFFIC OF CALCUTTA IN FOOD-GRAINS.

No. 3406 Statistics .- The following memorandum and statements are published for general information.

STATISTICAL DEPARTMENT, The 14th December 1897.

M. FINUCANE, Secy. to the Govt. of Bengal.

Memorandum.

THE sea-borne import and export traffic of Calcutta in food-grains during the nine days ending 30th November 1896 and the corresponding period of 1897 is shown in the following statement :-

		22nd to 30th November						
		189	96.	1897	1897.			
* 1 *		2	3	4	5			
		Cwts.	Mds.	Cwts.	Mds.			
Imports. Fron Foreign Ports ,, Indian ,,	:::	7,165 44,922	9,752 61,144	270 25,390	367 34,559			
Total		52,087	70,896	25,660	34,926			
Exports.			9					
To Foreign Ports		50,292 29,629	. 68,453 40,328	87,832 36,003	1,19,549 49,004			
Total		79,921	1,08,781	123,835	1,68,553			

Imports.—The staples comprising the import traffic are shown in the table below, and the figures for the period are compared with those for the corresponding period of last year :-

		22 _{ND} то 30тн	November	
	189	6.	189	07.
1	2	3	4	5
Food-grains.	Cwts.	Mds.	Cwts.	Mds.
Rice Paddy Wheat Gram and pulses Other food-grains, such as jowar, barley, oats, &c.	3,675 916 6,415	41,124 5,002 1,247 8,732 14,791	14,238 7,187 4,135 100	19,380 9,782 5,628 136
Total	52,087	70,896	25,660	34,926

Imports.—During the period under report, the imports of rice amounted to 14,238 cwts., against 30,214 cwts. in the 9 days ending 30th November 1896. The amount imported from Burma was 1,122 cwts., against 10,912 cwts. in the corresponding period of 1896, and that from Chandbali and Balasore 13,106 cwts., against 19,274 cwts. in the corresponding 9 days of last year. The imports of paddy were 7,187 cwts. against 3,675 cwts., and those of gram and pulses 4,135 cwts., against 6,415 cwts. in the 9 days ending 30th November 1896. The imports of other food-grains, such as jowar, barley, oats, &c., fell from 10.867 cwts. to 100 cwts. only in the period under review. from 10,867 cwts. to 100 cwts. only in the period under review.

Exports .- In the following statement the total quantity of each kind of food-grain exported by sea during the period under report is compared with that for the corresponding

period of 1896 :-

		22 мр то 30 т	TH NOVEMBER	
	18	396.	189	97.
1	2	3	4	5
Food-grains.	Cwts.	Mds.	Cwts.	Mds.
Rice	162 16,698 1,746	83,457 220 22,728 2,376	103,699 4,520 1,943 12,133 1,540	$\substack{1,41,146\\6,152\\2,645\\16,514\\2,096}$
Total	79,921	1,08,781	123,835	1,68,553

The exports of rice from Calcutta to foreign ports rose from 46,819 cwts. to 84,643 cwts. in the period under report. There were no exports to Muscat, which took 3,548 cwts. in the corresponding period of last year. The despatches to Ceylon showed an increase of 40,970 cwts., and those to Aden a decline of 4,822 cwts. The exports of gram and pulses and miscellaneous food-grains remained nearly the same as in the corresponding period of 1896.

As regards Indian ports, the exports of rice during the 9 days under review amounted

to 19,056 cwts., against 14,496 cwts. in the corresponding Indian ports.

to 19,000 cwts., against 14,496 cwts. in the corresponding period of last year; Bombay took only 999 cwts., against 13,864 cwts. in the corresponding period of 1896, but the Madras ports took 16,885 cwts., against only 3 cwts. in the last 9 days of November 1896. The exports of paddy to Cochin, Calicut, and Tellicherry aggregated 4,091 cwts., against nil in the 9 days ending 30th November 1896. The decrease under gram and pulses amounted to 3,739 cwts. the chief fluctuations being a cessation of exports to Bombay, which took 10,245 cwts. in the corresponding period of last year, and an increase of 3,128 cwts. to Burma and 3,043 cwts. to the Madras ports Indian ports. to the Madras ports

Detailed statements showing the sources of supply and the places of destination, both as regards Foreign and Indian ports, are given below:

Statement No. I, showing the Imports of Food-grains into Calcutta from Foreign and Indian Ports from the 22nd to 30th November 1896 and 1897 (both days inclusive).

	Ports.			Rice.	Paddy.	Wheat.	Gram and pulse.	Other food-grains, such as jowar, bar- ley, oats, &c.	Total.
Control of the Contro	1		1	2 .	3 .	4	5 5	6	7
gardina da	And the second s		1	0-4-	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.
	From Indian Ports		1	Cwts.	*	916	1,642	3,702	6.260
	42.7	$$ $\begin{cases} 1896 \\ 1897 \end{cases}$							******
Bombay	•••	(1001					513		513
100 m		(1896					574		574
	(Madras *	$$ $\begin{cases} 1896 \\ 1897 \end{cases}$							
				28			233		261
	Dimlinatam	$$ $\begin{cases} 1896 \\ 1897 \end{cases}$					7		7
	Bimlipatam	(1991					1,598		1,598
Madras	{	(1896				******	2,404		2,40
	Coconada	$$ $\begin{cases} 1896 \\ 1897 \end{cases}$					2,302		-7,707
							9		2000
		$$ $\begin{cases} 1896 \\ 1897 \end{cases}$					******		
	Copalpur	₹ 1897					1000		10.44
		41000		10,912			*****	*****	10,91
	. D ====	$$ $\begin{cases} 1896 \\ 1897 \end{cases}$		704			253	1	95
	(Rangoon	(1001	•				100	·	
Burma	}	(1896							41
	Moulmein	$$ $\begin{cases} 1896 \\ 1897 \end{cases}$		418	******	******			
	C MC				163	100	*		16
-		··· { 1896 1897	***						
Chittagong	***	1897					400		6,44
		7 1000		4,820	1,447		180		8,58
	(Balasore	{ 1896 1897		4,348	4,235	*****	******		7,00
	Dalasore	(1001			0.000	NOOR ENTER	2,240		18,7
Balasore	}	(1896		14,454	2,065	******	737		12,4
	Chandbali	{1896		8,758	2,952				1100
				30,214	3,675	916	6,410		44,92 25,39
	Total Indian Port	1896	***	14,228	7,187		3,97		20,00
	Total Indian Port	(1981	***	Lajano		-			
		4.						6,585	6,58
	From Foreign Por					1		100	
United King	dom	1897							
Ollited King									1
		{ 1896	***	10			15	0	
China-Hon	g-Kong	(1897	***	10	-				,,,,,
		£ 1908					1		
0, 1, 0, 11	ements	{ 1896		1					
Straits Settl	ощоно			Total Control		Mr. of m		580	
		(1896						*****	
Vietoria .		{ 1896 1897	***	******	******			7,165	7,
							******	100	
	Total Foreign Por	f 1896		10	and the second s		16	00	
AAA	Total Foreign Por	£ 1897		10				10,867	91
		L OF (1896	3	30,214	3,675	91	0 0,4		95
	GRAND TOTA	Tw-2				,	4,15	35 100	1
Consideration to the second	FOREIGN AND DIAN PORTS	(189	7	14,238	7,187				

Statement No. 11, showing the Exports of Food-grains from Calcutta to Foreign and Indian Ports from the 22nd to 30th November 1896 and 1897 (both days inclusive).

	Ports.			Rice.	Paddy.	Wheat.	Gram and pulse.	Other food-grains, such as jowar, bar- ley, oats, &c.	Total.
	1			2	3	4	5	6	7
То	Foreign Ports,		ŵ.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.
United Kingdom		$$ $\begin{cases} 1896 \\ 1897 \end{cases}$::	4,921 5,160	:::::	*****	1,137 806		6,058 5,966
	Cape Town	$\dots \left\{ {1896\atop1897} \right.$		591	****			******	591
	East London	$\dots \left\{ \begin{smallmatrix} 1896 \\ 1897 \end{smallmatrix} \right.$		222		<u>.</u>			222
Cape Colony {	Algoa Bay	$\cdots \left\{ ^{1896}_{1897}\right.$		8 10		*****			**** 810
	Mossel Bay	$$ ${1896 \atop 1897}$:::	885					885
Eastern coast of }	Other Ports	\cdots $\begin{cases} 1896 \\ 1897 \end{cases}$:	147					147
Mauritius		$\dots \left\{ {1896\atop1897} \right.$		732					747
Natal		{ 1896 1897	:::	3,193			293		3,486
South America—De	merara	{ 1896 { 1897	:::			18	425		413
Aden		$$ $\begin{cases} 1896 \\ 1897 \end{cases}$:::	11,053 6,231	*****				11,053 6,231
Arabia—Muscat	•••	$$ $\begin{cases} 1896 \\ 1897 \end{cases}$		3,548		*****		*****	3,548
Ceylon		$$ $\begin{cases} 1896 \\ 1897 \end{cases}$		26,422 67,392	429	******	1,707 318	44	28,173 68,139
China-Hong-Kong		* { 1896 1897		22 9		15	44		81 9
Straits Settlements		{\frac{1896}{1897}}		1 3		90 2 00	331 596	44	422 843
New South Wales		{\frac{1896}{1897}}	:::	120			90		210
Piji Islands		{ 1896 1897		:::::			60		60
T	otal Foreign Ports	{ 1896	:::	46,819 81,643	429	105 218	3,324 2,498	44 44	50,292 87,832

	Ports.	61 71. JEV		Rice.	Paddy.	Wheat.	Gram and pulse.	Other food-grains, such as jowar, bar- ley, oats, &c.	Total
1 1 1 m	The manage			2	8 *	4	5	6	7
	To Indian Ports.			Cwts.	Owts.	Cwts.	Cwts.	Cwts.	Cwt
Bombay	•••	{ 1896 1897	:::	13,864 999		.	10,245	440 224	24,549 1,229
- 495 A	Madras	{ 1896 1897	::	3 4,486	===	37	1,000 4,212	82	1,12; 8,698
	Badagara	$ \left\{ \begin{smallmatrix} 1896 \\ 1897 \end{smallmatrix} \right.$::	520		6 L			520
	Bimlipatam	$$ ${1896 \atop 1897}$:::			9	28		 अ
	Calicut	{ 1896 1897		5,457	705			*****	6,162
Madras	Cannanore	{ 1896 1897	:::	1,138					1,138
	Cochin	{ 1896 1897	=	4,873	2,909		183	dr	7,782
	Cocanada	{ 1898 1897	=			125			14 128
	Tellicherry	$$ $\begin{cases} 1896 \\ 1897 \end{cases}$	=	411	477			*****	888
	Vizigapatam	{1896 1897	=	*****	*****	2			2
	Rangoon	{ 1896 1897		261 673		1,540	1,147 4,344	1,180 1,272	2,588 7,829
	Akyab	{1896 1897	::	1	- :::::		40 56		41 56
Buems	{ Kyoukpyoo	{1896 1897					4		4
	Moulmein	{ 1896 1897	:::			1	187 95		187 96
	Sandoway	{ 1896 1897	:::			*****	3		3
Chittagong		{1896 1897		294			957 531		651 531
Balasore	Balasore	{ 1896 1897	-				140 128		140 120
er Ua Saataan	Chandbali	- {1896 1897				20 48	48 234		282 76
Nicobar		{ 1896 1897		73			3		15
Travancore-	Allepey	$$ ${1896 \atop 1897}$::	499		::::	15	••••	499
	Total Indian Ports	{1896 1897	::	14,496 19,056	4,091	57 1,725	13,374 9,635	1,702 1,496	29,629 36,003
	GRAND TOTAL FOREIGN AND	от { 1896 Гм- {		61,31 5		162	16,698	1,746	79.921 123,835
	DIAN PORTS.	1N- (1897		103,699	4,520	1,943	12,133	1,540	

STATISTICS OF THE SEA-BORNE TRAFFIC OF THE MINOR PORTS IN BENGAL IN FOOD-GRAINS.

No. 3,409 Statistics.—The following memorandum and statements are published for general information.

STATISTICAL DEPT., The 14th December 1897.

M. FINUCANE, Sery to the Govt. of Bengal.

Memorandum

THE comparative statements below give statistics of the import and export trade of the minor ports of Chittagong, Narayanganj, Balasore (including both Balasore and Chandbali), Cuttack, and Puri during the nine days ending 21st November 1897, as compared with the trade of the corresponding period of 1896:—

IMPORTS.

fort.			From Foreign ports.	From Indian ports.	Total	
			Cwts.	Cwts.	Cwts.	Mds.
(1)	1896			1,620	1,620	2,205
Chittagong	1897	•••		814	814	1,108
Narayanganj {	1896	•••	*****	*****		
Transfanganj (1897		***	*** **	•••	*****
- 1	1896			206	206	280
Balasore ports	1897	•••	******	582	582	792
Outtack }	1896					
Outcack	1897	•••	******			
Puri }	1896					***
1 mi	1897	•••		*****	******	
			months from the		-	
m.4.1 1	1896			1,826	1,826	2,485
. Total	1897			1,396	1,396	1,900
			600mm-120	MINISTER OF THE PERSON NAMED OF THE PERSON NAM	-	_

EXPORTS.

Ports.	To Foreign ports.	To Indian ports	Tot	al.
	Cwts.	Cwts	Cwts.	Mds.
Chittagong \ \ \frac{1896}{1897}	743	1,311	$\frac{1}{2,054}$	2,79 6
Narayanganj { 1896 1897	••••			
Balasore ports 1896	2,915	25,571 20,456	25,571 $23,371$	34,805 31,810
Cuttack \ \ \frac{1896}{1897}	29,642	3,660	29,642 3,660	40,346 4,982
Puri \ \ \frac{1896}{1897}	5,567		5,567	7,578
Total { 1896	35,209 3,658	25,572 25,427	60,781 29,085	82,730 39,588

The import trade of Chittagong, which amounted to 814 cwts., declined by 806 cwts., chiefly on account of smaller receipts of gram and pulses and other food-grains from Calcutta and Narayanganj, while the improvement in the export trade was due to the despatches of 743 cwts. and 1,311 cwts of rice to Colombo and Madras respectively. The export trade of the Balasore ports fell off by 2,200 cwts., chiefly on account of smaller despatches of rice and gram and pulses to Calcutta. False Point despatched 3,660, cwts. of rice to Madras, against nil cwts. during the corresponding period of the last year. Mauritius, which received 29,642 cwts. of rice from False Point during the nine days ending 30th November 1896, drew nothing in the period under review. Puri made no exports to Colombo, against 5,567 cwts. of rice exported during the corresponding period of 1896.

Detailed statements showing the sources of supply and the places of destination, both as regards Foreign and Indian ports, are given below:—

Statement showing the quantities of Food-grains imported into Chittagong from each Foreign and Indian Port during the nine days ending 30th November 1897, as compared with the trade of the corresponding period of 1896.

PORTS FROM WHICH IMPORTED.	Rice.		Paddy.		Wheat.		Gram and pulse.		Other food-grains, such as jowar, barley, oats, &c.		TOTAL.	
	1896.	1897.	1896.	1897.	1896.	1897.	1896,	1897.	1896.	1897.	1896,	1897.
1	2	8	4	5	6	7	8	9	10	11	12	13
Nil Foreign Ports.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts,	Owts.	Cwts.	Cwts.	Cwts.
Indian Ports. Burma {Akyab		156 10				3	570 507	522	7 536	123	7 1,106 507	156 10 648
Total		166				3	1,077	522	543	123	1,620	814

Statement showing the quantities of Food-grains exported from Chittagong to each Foreign and Indian Port during the nine days ending 30th November 1897, as compared with the trade of the corresponding period of 1896.

PORTS TO WHICH EXPORTED.	Ric	ce.	Paddy.		Wheat.		Gram and pulse.		Other food- grains, such as jowar, barley, oats, &c.		TOTAL.	
	1896.	1897.	1896.	1897.	1896.	1897.	1896.	1897.	1896.	1897.	1896.	1897.
1	2	3	4	5	6	7	8	9	10	11	12	13
Foreign Ports.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Owts.	Cwts.	Cwts
Colombo		743						······ ₂				74
Indian Ports.											e and the	
Madras { Nilla		1,311					1				1	1,81
. Total		2,054					1			•	1	2,05

Statement showing the quantities of Food-grains imported into Balasore from each Foreign and Indian Port during the nine days ending 30th November 1897, as compared with the trade of the corresponding period of 1896.

POETS FROM WHICH IMPORTED.	Ric	00.	e. Paddy.		Wheat,		Gram and pulse.		Other food- grains, such as jowar, barley, oats, &c.		1 - 1 - 007	
	1896.	1897.	1896.	1897.	1896.	1897.	1896.	1897.	1896.	1897.	. 1896.	1897.
1	2	3	4	5	6	7	8	9	10	11	12	18
	Cwts.	Cwts.	Cwts.	Owts.	Cwts.	Owts.	Cwts.	Cwts.	Cwts.	Owts.	Cwts.	Cwt
Foreign Ports,												****
		*							ENG 1		200	
Indian Port,					20	47	185	407		128	206	582
Calcutta	1				20	47	185	407		128	206	583

Statement showing the quantities of Food-grains exported from Balasore to each Foreign and Indian Port during the nine days ending 30th November 1897, as compared with the trade of the corresponding period of 1896.

PORTS TO WHICH EXPORTED.	Rice. Padd		dy. Wheat.		Gram and pulse.		Other food- grains, such as jowar, barley, oats, &c.		Total.			
	1896.	1897.	1896.	1897.	1896.	1897.	1896,	1897.	1896.	1897.	1896.	1897.
1 .	2	8	4	5	6	7	8	9	10	11	12	13
Foreign Ports.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Owts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwta
Mauritius		2,915										2,915
Indian Port.						,						
Calcutta	19,241	13,723	4,748	5,261			1,582	1,472			25,571	20,456
Total	19,241	16,638	4,748	5,261			1,582	1,472		******	25,571	28,371

Statement showing the quantities of Food-grains exported from False Point in the Cuttack district to each Foreign and Indian Port during the nine days ending 30th November 1897, as compared with the trade of the corresponding period of 1896.

Ports to which exported.	R	ice.	Pad	dy.	Whe	est,		n and		food-	To	tal.
	1896.	1807.	1896.	1897,	1896.	1897.	1896.	1897.	1896.	1897.	1896.	1897.
1	2	.8	4	.5	6	7	8	9	10	11	12	13
Foreign Port.	Cwts.	Cwts.	Owts.	Owts.	Cwts,	Cwts.	Cwts.	Owts.	Cwts.	Cwts.	Cwts.	Cwts
Mauritius	29,642			•••••		******					29,642	
Indian Ports.								7 11 11 100	ar y a di	2 110		r (4)
Madras Cochin	=	1,700 234 624 1,102				****			-11111-0		/ C	1,700 23 62 1,10
Total	29,642	3,660								·	29,642	3,66

Statement showing the quantities of Food-grains exported from Puri to each Foreign and Indian Port during the nine days ending 30th November 1897, as compared with the trade of the corresponding period of 1896.

PORTS TO WHICH EXPORTED.	Rice.		Pa	Paddy.		Wheat.		Gram and pulse.		Other food- grains, such as jowar, barley, oats, &c.		TOTAL	
	1896.	1897.	1896.	1897.	1896.	1897.	1896,	1897.	1896.	1897.	1896.	1897.	
1	2	3	4	5	6	7	8	9	10	11	12	18	
Foreign Port.	Cwts. 5,567	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Cwts.	Owts. 5,567	Cwts.	
Indian Ports.													
NH				,									
Total	5,567										5,567		

EXPORTS OF FOOD-GRAINS BY THE EAST INDIAN RAILWAY.

No. 3408 Statistics.—The following statement shows the quantity of rice and other food-grains exported by the East Indian Railway from Calcutta and Howrah during the period from 1st January to 4th December 1897, both days inclusive, to have been 1,03,16,143 maunds. The destination of 1,01,04,066 maunds is specified. Of this quantity 32,92,191 maunds were carried to the North-Western Provinces and Oudh, 44,47,813 maunds to stations in Bengal, 15,50,523 maunds to the Central Provinces, and the rest, 8,13,509 maunds to other provinces. In the last week of the period, 4,270 maunds were exported to the North-Western Provinces and Oudh, and 376 maunds to Bihar.

STATISTICAL DEPARTMENT,

M. FINUCANE,

The 14th December 1897.

Sray. to the Gort. of Bengui.

Statement showing the quantilies of rice and other food-grains exported from Howrah and Calcutta (Chitpur, Kidderpore Docks, and Port Trust Railway) by the East Indian Railway, from 1st January to 4th December 1897.

STATION TO WH	тон	Total from 1st January to 30th June 1897.	Total from 1st to 31st July 1897.	Total from 1st to 28th August 1897.	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 30thOcto- ber 1897	from 31st October to 27th Novem- ber 1897.	4th December
1		2	3	4	5	6*	7	8
BENGAL.								
Hooghly.								
		Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Hooghly Tarakeswar		2,122			339			
Chandernagore		109						
Dasghora		2						
Pandua Bainchi	•••	14						
Bhaduarman		17 664						•••
2 marcs war								
Total		2,928			339			
Burdwan.								
Memari .		163						
Rasulpur		4			4			
		1,094	0.070	389	232	102	481	471
-114		9,653	3,972	1,572	2,143	1,168	2,102	
Churchan		103				5		•••
V T		349		***				***
			99	61				
Asansol .				523		22		
Total .		11,376	4,071	2,545	2,375	1,297	2,583	471
Birbhum.	1							
		378					1	
		2	101	1,261	159	199		
	•	683		103	143			***
Almadann	::	302		***	:::	****		
Total	-	1,366	101	1,364	302			
Nadia.	-	1,000		1,504	002	199		
				6.3				
Mirpur Chuadanga	- 1	7,218 3,998	965 3,670	970				***
Kushtia		7,613	2,841	378	347			
Alamdanga		5,275	2,202					
Bhairamara		6,407	1,001					
Damukdia Bagula		9,349 3,819	10,244	924	1,973			
Kumarkhali		3,236	378		382			•••
Khoksa		1,828						
Total	. 5	8,743	21,650	1,302	2,702			
Jessore.								
essore		1,014	740				1,193	
ingia	2	2,478	12,788					
Total	8	3,492	13,528				1,193	
Murshidabad.	1							
zimganj	6	,277	3,018	1,929	761			
aganj		,930	3,770	1,503	383	122		
CONTRACTOR OF THE PROPERTY.	1		747	2,638				***
hulian	1		970	C) Per her				
angipur			378	377				

STATION TO WHICH CONSIGNED.	Total from 1st January to 30th June 1897.	Total from 1st to 31st July 1897.	Total from 1st to 28th August 1897.	August to 25th	Total from 26th Septem- ber to 30th Oct. 1897.	Total from 31st October to 27th Novem- ber 1897.	Week ending 4th Decem- ber 1897.
1	2	8	4	5	6	7	8
BENGAL-		10.7(0.10-11.04	煮			- House a second	
contd.		Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Rajshahi. Malanchi	Mds. 1,413	529	mus.	152	1,095		
Malanchi			2,083	. 923	2,347		•••
Raninagar			1,054				***
Nator			189				· ··
Total	1,413	529	3,326	1,075	3,442		(*************************************
Dinajpur.					A Constitution of the Cons		N.
Dinajpur	373	2,417	343		399	, in	
	-		-				
Rangpur.	. 767	829					
Kurigram	100						
Lalmonir Hat	. 55			223	 805		1
Domer	685			228	525	:::	
Kaunia	770					1	-
Kaliganj Mogal Hât				120			
No. of Section 1984	0.750		-	348	525		-
Total		- 000	754				-
Cooch Behar	20,763	378	102	309	- 000		
Jalpaiguri.							1
Chilahati				374	207		1
Dam-Dim		100		203			
Mandalghat -	3,037		339	Co. The contract of the contra		The second secon	
Haldibari	25 224		1,820				
Jalpaiguri Ramshai Hât	4,49		749		304		
** * *	2,809			101			
Belakoba .	10		1	0.536	0.00		
Chalsa Road Gha	at	1,511		1 27 5			-
Total .	36,06	4 16,586	4,489	10,65	11,97	856	
Darjeeling.			1				
Sonada .	52		214				
	. 5,39			3,69			
Ghoom .	2,61			10.00			7
ar ar Journa	2,93						
	28				22	5 159	2
~ 0 .0		280	38	0		10	
24 3 31			38	6	47	3 40	В
Total	16,33	23,887	5,71	8 9,95	1 18,69	6 12,63	6
Bogra.				towns or	49 10000		a.A
		2,85					
TIME		4,48					9 "
		2,07				AND MEDICAL PROPERTY.	Section 1
Hili			4,09				9 .
Sultanpur							
Total		9,53	9 7,49	90 4,24	17,72		
Pabna.	100	05	7/	30 1,14	16 3	15	.
Sirajganj	6,29	95	-				
Dacca.				1 4			
Munshiganj		1,59	1				
Dacca	3	80	236 3 Land 10 200	TOTAL DESIGNATION	9.5		
Narayanganj					31		
		ASSESSMENT OF THE PARTY OF THE	SECURITY OF STREET	The second section is a second	31	SECTION AND SECTION ASSESSMENT	

STATION TO WHICH CONSIGNED.	Total from 1st January to 30th June 1897.	Total from 1st to 31st July 1897.	Total from 1st to 28th August 1897.	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 30th Oct. 1897.	Total from 31st October to 27th Novem- ber 1897.	Week ending 4th De cember 1897.
1	2	3	4	5	6	7	8
BENGAL-	14						
Faridpur.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Pangsa	7,257	1,769	470	382	431	*	
Rajbari	7,571	444	Q-1				
Goalundo	11,414	2,300	2,532	1,814			
Pachuria	1,374	377		2,986			
Total	27,616	4,446	3,002	5,182	431		***
Backergunge.				M. C.			
Jhalokati	man makeng			2,928		100	
onalogati	1			2,026			
Khulna.	0.00	-41				16	1.
Phultala Nawapara	360	541	754 200		•••		•••
Khulna				103			
Total	360	541	954	103			
and the second s							
TOTAL OF BENGAL	1,98,470	1,08,056	38,444	42,921	56,053	20,360	471
CHOTA NAG- PUR.							
Hazaribagh.							
Giridih	16,434	5,681	1,116	107	402		
Manbhum.							
Purulia	2,972	3,602	1,466	1,450	1.00	331	
Bulrampur	722	1,591	1,100				
Barakar	156	482	371	***			
Pradhan Khanta Katrasgaih	2,377	762	2,453	191			
Katrasgain			138				- ::
Adra			126				
Kalubathan		•••	762				
Total	6,328	6,437	5,316	1,641		331	il.
Singhbhum.							10141
Chakradharpur	31						
Total	31						
TOTAL OF CHOTA NAGPUR	22,793	12,118	6,432	1,748	402	331	
BIHAR.	Constitution of the consti						
Sonthal Parganas.							
Barharwa	7,097	6,838	5,368				
Maharajpur Ghat	1,129		•••				
Pakour	3,011	1,890	6,465				
Sahibganj Baidyanath	11 794	13,427 3,891	11,239	151			- ::
Madhupur	2,045		1,077		38		
Rajmaha!	1 905	1,919	2,288				
Tinpahar		1,888	2,296				
Kotal Pakour Mihijam	- ::		1,527 381				***
Jamtara			381	::			
		-	00.10			-	-
Total	69,536	29,853	32,495	151	38	***	

STATION TO WHI CONSIGNED.	CH	Total from 1st January to 30th June 1897.	Total from 1st to 31st July 1897.	Total from 1st to 28th August 1897.	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 30th Oct. 1897.	Total from 31st October to 27th Novem- ber 1897.	Week ending 4th December 1897.
1		2	3	4	5	6	7	. 8
BIHAR—conte	d.			Mds.	Mds.	Mds.	Mds.	Mds.
Purnea, Kissenganj		Mds. 379	Mds.	Mas.	Mas.	Mus.	Mas.	
Katihar Junctio	n	4,509	371					
Manihari		61	6	***		141		
Sonali		346	751	370				
Kasba Other places		370	740 2,751	510				
Juner places						-		
Total		5,665	4,619	370		141		
Bhagalpur.								lane.
Nathnagar	•••	5,339	1,532	1,134				
Colgong Pirpainti	•••	25,466 13,947	1,511 6,048	1,507 762				
Ghoga		2,248	0,040	102	-			
Bhagalpur		66,546	19,769	10,343	1,141	1,591		
Sultanganj		3,770		380		1	1 .	
Raghupur Pertabganj	•••	370 374						77.
Bhaptiahi		97 ±	2,262					
Total		1,18,060	31,122	14,126	1,141	1,591		-
	•••	1,18,000		11,120	1,121			
Monghyr. Bariarpur		382						
Khagaria		9,517	3,386	4,975		386	1	
Jamalpur		1,521	1,120	3,040		380		***
Lakhisarai	•••	24,529	2,473	6,626	1,626	1,522	379	
Monghyr Garhara	***	6,448 36,145	2,639 9,843	4,149 7,618	1,124			
Tegra		9,825	6,940	3,051		760	379	- ::
Jamui		4,203		1,134				-
Begamsarai		371						***
Burhi Simultola	•••	3,031	8,768 162	3,384	975		101	***
Nawadi		2,657 371	102	348	-			
Kajra		752	2,256	1,503	1			:::
Total		99,752	32,587	35,828	4,217	3,428	859	-
Patna.					-		- 4	
Masaurhi		375						
Khushrupur		23,700	12,553	6,822	2,381			
Barh		18,905	9,109	6,409	3,025	4,166	756	
Patna .		1,97,224	83,104	48,290	33,998	53,046	22,458	
Bankipore Digha Ghat	***	3,372 49,331	4,920 18,339	2,647 10,657	4,975 9,596	4,570	759	
Badispur		752	10,000	10,007	0,000	1,	2,656	
Bihta		3,602	4,211	10,244	4,566	2,332	379	
Mokameh		23,469	14,484	11,363	4,664	3,048	1,962	
Dinapur Buktiarpur	•••	7,823	1,128	380	8,394			
Fatua		5,698 3,817	12,176 1,896	15,988 3,037	3,473		385 376	- :::
Total		3,38,068	1,61,920	1,15,837	75,072		-	
Gaya.						32,011		
3aya	,	66,331	17,080	28,726	21,426		6,875	l
Jahanabad Bela	•••	2,621	5,723	8,705	6,153	2,315		
Mukdumpur		373 371	15.00	380		374		
		-			-		-	
Total	•••	69,696	22,803	37,811	27,579	28,611	6,875	
Shahabad.								
Bedadi	•••	8,091	763	***	1.000	1,541		
Raghunathpur Arrah	•••	11,340 23,071	1,508	4,938	1,896 5,052	3,053	2,288	376
Buxar		27,935	15,691 18,157	16,933	23,304	11,939 23,685	4,574	
Dumraon		7,910	1,510	3,022	2,268	3,457		
Bihia	•••			764	1,525	375	380	
			-	-	-		-	376

STATION TO WH	існ	Total from 1st January to 30th June 1897.	Total from 1st to 31st July 1897.	Total . from 1st to 28th August 1897.	Total from 29th August to 25th Septem- ber 1897	Total from 26th Septem- ber to 30th Oct. 1897.	Total from 31st October to 27th Novem- ber 1897.	Week ending 4th De- cember 1897.
1		2	3	4	5	6	7	8
BIHAR—conc	ld.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Darbhanga. Sakri		5,642	375	3,799	377			
Tamaria		4,144	370	378	011			•••
Samastipur		80,779	12,822	12,511	864	3,387	1,148	
Dalsingh Sarai Darbhanga	:::	39,098 2,25,091	14,717 62,524	14,115 31,141	1,515	2,287	759	***
Kamtaul		1,857	3,485	1,540	2,071	1,154	377	
Waini	\	4,543	1,141	381				
Jhanjharpur	***	1,508	3,389	1,521	764			
Total		3,62,662	98,778	65,386	6,191	6,828	2,284	
Muzaffarpur.							P	
Janakpur Road Sarai		759	377	1.511				
Bairagnia		1,874 2,495	757	1,511				•••
Kanti		1,512						***
Matipur Dholi		1,398		374				***
Muzaffarpur		1,893 2,11,741	42,034	29,249	4,169		1,512	•••
Bhagwanpur		6,996	2,263	3,036	376	5,332		
Sitamarhi	•••	57,756	21,033	4,229	370			
Hajipur Garaul	***	22,362 1,499	7,659 1,890	12,585	4,187	3 052	766	
Total		3,10,285	76,013	52,873	9,102		2,278	
						8,384		
Champaran. Maesi		11,951		377	200			
Segowli		9,694	1,127	380	380			•••
Jindara		22,495	***				*	
Bettiah Bara	***	1,78,145 42,715	22,636 $6,125$	16,418 $2,273$				
Motihari	***	86,241	12,445	3,003				•••
Pipra	•••	7,051	1,107	377			:::	
Total		3,58,292	43,440	22,828	380			
Saran.			1-97					
Dighwara		1,887	6,097	7,298	5,348	3,415		
Ekma	***	12,775	9,428	8,688	1,895	3,448	764	
Chapra Goldenganj	•••	1,28,760	26,967	25,154	14,456	8,718	6,808	
Daronda	:::	34,771	9,041	4,887	764	•••		***
Savan		1,67,819	46,099	24,553	19,815	3,421	1,531	
Revelganj Mairwa		1,11,822 747	33,297	26,739	10,272	3,772	4,935	
Sonpur			•••			380	383	
Total		4,58,954	1,30,929	97,319	52,550	23,154	14,421	
TOTAL OF BIHA	R	22,69,317	6,69,688	5,25,206	2,10,428	2,00,539	63,690	376
TOTAL OF PRO	0.							
VINCES UNDER THE LIEUTE ANT-GOVERNOOF BENGAL.	R I	24,90,580	7,89,862	5,70,082	2,55,097	2,56,994	84,381	847
ASSAM.		0.45		7 (2 %) 37 (2 %) 37 (2 %) 37 (2 %)		144		
Silchar Sealtik		347	1,006			302		
Total		347	1,006			302		
Nowgong.								THE STATE OF
Nowgong				380				143 Ü
Total of Assam		347	1,006	380	-	302		- 97.57 V
_ Jour OI Assum	•••	01/	1,000	350		802		•••

STATION TO WHICH CONSIGNED	Total from 1st January to 30th June 1897.	Total from 1st to 31st July 1897.	to 28th August	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 30th Oct. 1897.	October to 27th	Week ending 4th Decem- ber 1897.
1	2	3	4	5	6	7	8
NORTH-WEST- ERN PROVINCE AND OUDH,	Mds.	Mds.	Mds.	Mds.	M ds.	Mds.	Mds.
Ghazipur District Dildarnagar Guhmer	25,027 365	7,593 3,422	1,907 1,530 8,047	3,035 1,141 7,976	8,049 1,537 13,291	385 3,456	
Tari Ghat Ghazipur		757		754	382		3424
Total	45,915	11,772	6,484	12,906	23,259	3,841	19441
Benares District.		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		and the state of t	4.00	adjoin 1	72 h
Dhina Shiupur Zamania	2,270	1,897 3,445	2,657	375 2,657	760 7,896		e Gibra
Sakaldiha Mogulsarai	4,160 8,405		378	10.040	752 877 87,828		
Benares Cantonme	2.00.000	32,602	25,360	12,648	-		
Total		52,002	20,000	10,000	1		interest to
Gorakhpur Districe Bhagalpur Gogra	. 3,375		\$6	241	100.0		
Chauri Chaura Tahsil Deoria	10.019	745 2,288					
Gorakhpur	7,987	4,567				10000	
	30,110		3,388	1	- :::		
	61,177						-
			-				
	1,126				-		gasathar.
TT 1 TO	. 11,438		1 ::			- 40	-
Total .	16,708						
Gonda District.							
Gonda .	19,514		761				::
Land Carlotte Committee Co	28,558	3	76		14601°		
Baraich District				10.54		to Jovania	17936
Naupara	1,894			-		_ ::	2
Total	6,789		¢				· · · · · · · · · · · · · · · · · · ·
Mirzapur Distri	1 00 00	7 4,50	2,66	7 12	25 75	55 . 39	0
Ahraura Road Chunar	22,22	9 1,12	7 37	0	1,15	9 89	9
Mirzapur Gainpura	84,65	4 7,96	0 17,41		70		3 390
Total	1,14,85	5 14,33	6 20,83	0 80	10,26	1,35	390
Allahabad Distri	ct			02.1	THE PARTY OF	17.	
Karchana	7,16						
Naini Manwari	2,63						
Jasra	35,88	4 2,27	6 3,06	1			
Mija Road Nahwai	1,18,40		4 5,72 8 1,91		119 39650	100	- 109
Allahabad	1,94,98		1 20,49	1 3,79	96 13,78	34 4,95	
Bharwari	22,94	0	77				
Sirathu Sniurajpur	15,91		75/513 MICHINES 1227.2				
	37						
Other places	BUT THE DESCRIPTION OF THE PARTY OF THE PART						1 1,133

STATION TO WI		from 1st January to 30th June 1897.	Total from 1st to 31st July 1897.	Total from 1st to 28th August 1897.	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 30th Oct. 1897.	Total from 31st October to 27th Novem- ber 1897.	Week ending 4th Decem ber 1897.
1		2	8	4	5	6	7	8
NORTH-WE ERN PROVIN AND OUDE contd.	CES	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Fatehpur Dist	rict.							
Bahrampur Khaga Bindki Fatehpur	::	1,889 4,512 59,519 778	381 3,793 103	2,279 1,143	764	::	::	=
Total		66,728	4,277	3,422	704		4	
Cawnpore Dist	rict.	7						100
Cawnpore City		3,78,602	6,044	15,333	1,515	6,185	4,160	860
Etawah Distr	ict.							
Phaphund Bharthna Etawah Jasawantnagar	::	10,999 766 46,658 9,451	1,148	 370	761	 381	::	=
Total		67,874	1,148	370	761	381		
Farukhabad I	Dis-							
Fatehgarh Farukhabad Kanauj	::	373 753 381		:::	::		::	-
Total		1,507						
Mainguri Dist	rict.			4	1			
Kaurara Shakohabad	::	6,443 6,497	751	:::	:::	:::		
Total		12,940	751	n, 				
Agra Distric Firozabad Agra	t.	24, 396 1,09,626	377 11,341	379 5,269	8,398	772 16,939	877 8,083	
Barhan		260		58 ···				
Total Sitapur Distr		1,34,282	11,718	5,648	8,398	17,711	8,410	
Sitapur		12,438	878					
Muttra Distri	ct.			100		-		
Kosi Muttra Brindaban		1,564 11,371 696	758	758	382	1,155	1,524 385	384
Total		18,631	758	758	382	1,155	1,909	384
Alighur Distr	rict.							
Harduaganj Sikandra Rao Hattrass Alighur		755 758 82,104 19,579	9,427 2,268	 1,784 2,667	1,158 1,515	12,285 1,914	 5,282 8,414	
Total		1,03,191	11,695	4,451	2,668	14,199	8,696	

STATION TO WHICH CONSIGNED.	Total from 1st January to 30th June 1897.	Total from 1st to 31st July 1897.	to 28th August	August to 25th	Total from 26th Septem- ber to 30th Oct 1897.	Total from 31st October to 27th Novem- ber 1897.	Week ending 4th Decem- ber 1897
1	2	3	4	5	6	7	8
NORTH-WEST- ERN PROVINCES AND OUDH— contd.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Bulandshahar Dis- trict.				te/	cor.	1.071.021.00	
Chola	1,504		381	con Etc.			***
Secundrabad	5,289		752 2,264	756 2,661	- ::	751	***
Khurja Dibai	30,346		754	2,001			
	-		4 151	9 417		1,879	
Total	42,052		4,151	3,417		1,075	THE STREET
Muzaffarnagar Dis- trict.	i	7.5.5	800 67		S. 17	-:	Produces.
Muzaffarnagar	757						
Meerut District.					Called		To Age
Bhaziabad	5,135	374			970	767	* ***
Meerut	42,541	1,150	765	383	376	1,903	1,120
Muradnagar		ļ			-	-	
, Total	47,676	1,524	765	383	376	2,670	1,120
Banda District.						200	**************************************
Badansa	4,530		375				
Banda	37,553	3,502		753	1,916	1,136	
Bargarh	11,332 7,919	784 1,142				1	***
Manikpur	43,218	1,112	1,129		T	384	ol
Kurwi Majhgawan	376	-	+				
Total	1,04,928	5,728	8,007	758	1,916	1,520	·
Moradabad District					Di la	Liber with the	erliktetes och d
eri 11	1,885	-	-	ļ	I		
Khanth Moradabad	11,699		381	I	D		
Chundowsi	21,796						
Total	35,380	1	381	l			
		1020		40.34	2 12 (2) 15 (2) 15 (2)		-
Azimgarh District.	27,277	1,509	2,675	1	1,130	·	1000
Shahganj		1,000	2,070	12000		-	-
Bareilly District.			11		1 100	The same	40,000
Nawabganj	754				18.5		
Aonla	47 974		1,520	1,905	NY 56 PERSONAL MET 75 CONCINCT		
Bareilly	21,213					- ,	-
Total	55,655	2,311	1,520	1,905	1,146		
Jaunpur District.			277788	1.70	6,882	1,517	
Jaunpur	65,666	6,855	5,850	1,531	- 0,882		T.
Shajehanpur Dis- trict.		ì				*	18/4 2-17
61 - i d	20,082	380	762		383		9
Shajehanpur Tilhar	16,026					1	1
	14 630		881			- "	
Anjhi			THE PARTY NAMED IN COLUMN	THE RESERVE THE PARTY OF THE PA			
Anjhi Rosa Junction	979						

STATION TO WHI CONSIGNED.	from 1s January to 30th June 1897.	from 1st	Total · from 1st to 28th August 1897.	Total from 29th August to 25th Septem- ber 1897.	Septem- ber to 30th Oct.	Total from 31st October to 27th Novem- ber 1897.	Week ending 4th Decem- ber 1897
8	2	3	4	5	6	7	8
NORTH-WEST ERN PROVINCE AND OUDH- contd.	ES	M.ls.	Mds.	Mds.	Mds.	Mds.	Mds.
Eta District.						District.	3000 1110
Jaleswar Road . Kashganj .	886 4,146	-	881			Mineral a	
Total .	4,532		381				7 - Jakanska
Lucknow Distric	6.		100			20014 (534.)	575. A. A. S.
Alamnagar Kakori	88,257 8,920 754	3,014 758 	4,186 705 	7,240 8,017	1,916 755 	4,193 756 	383
Total .	1,44,401	3,802	4,951	10,387	2,671	4,919	383
Pilibhit District					TA .		usrko. 1627 Sr Grago
Pilibhit .	1,516						
Saharanpur Distri Rurki	et. 378						
0.1	15,038			881			
Total .	15,406		•••	381			
Fyzabad District	t.					2510 20	Maria made
Radhauli Fyzabad Ajodhya	788 20,772 72,070 10,998 3,788	3,787	7,621	i,138	2,662	8,444	
Total .	1,08,406	4,161	7,621	1,138	2,662	3,441	
Sultanpur District	-					S.A.L.	
	9,786						
Bara Banki District.					45		n mile og
Bahramghat Duryabad Bara Banki Safdarganj	14,417	758 769 758		 80 :: 1	 	381 383	
Total	. 76,793	2,285				764	We that I have be
Hardai District.				3		737.5	Deur Lordy W
Balamau Hardai Baghauli Sandila	21,328 14,899 5,667	374 	381	376			
Total	49.010	874	381	376			
Bijnor District.	1000						
Dhampur Nagina Najibabad Bijnor	9,081	1,131 709		: : :::	::		
Total	80,959	1,840					
Unao.			381		er.		

STATION TO WHICH CONSIGNED.	Total from 1st January to 30th June 1897.	Total from 1st to 31st July 1897.	to 28th August	August to 25th	Total from 26th Septem- ber to 30th Oct. 1897.	Total from 31st October to 27th Novem- ber 1897.	Week ending 4th Decem- ber 1897
1	2	8	4	5	6	7	8
NORTH-WEST- ERN PROVINCES AND OUDH— concld.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Jhansi District. Jhansi	6,425	1,532	375	383	1,919	1,140	1.
Lolitpur District.	4,506	756	381				
Kheri District. Lakshmipur	3,389			•••		4	
Hamirpur District. Mahoba	16,262	1,898	2,262	1,145	1,548	759	da setata 7 Tanahara Tanahara
Dehra Dun District Hardwar	378		•••				ending Subsection
Jalaun District.					A Arriva		C-10 (1992)
Ait Kalpi	1,117			===			
Total	2,990						
Garhwal District.	2,264						
Haldwani Other places	72,531	1,898	4,579	365			
TOTAL OF THE NORTH-WEST-ERN PROVINCES	26,53,270		L,75,243	70,690	1,56,174	62,994	4,270
PANJAB.				-100		est cast	
Amritsur District.	740		100	382			
Delhi District.	740						2
Delhi	2,31,956	11,335	14,105	24,694	14,123	21,039	384
Jullundur District.							
Jullandur City	8			386			
Umballa District.							
Umballa City	17,863	140					
Gurgaon District.		200	Anno A				
Faraknagar Gurgaon Rewari	378 1,890 64,441	1,133	3,778	2,240	4,352	2,891	
Total	66,709	1,133	3,773	2,249	4,852	2,391	
Rawalpindi District			1,873	1,125			
Other places	00.050	1,901	13,782	-	5,744	3,800	377
TOTAL OF THE PANJAB.	1,13,321	14,509	83,533	20,885	24,219	27,230	761

STATION TO WHICH CONSIGNED.	Total from 1st January to 30th June 1897.	Total from 1st to 31st July 1897,	Total. from 1st to 28th August 1897.	Total from 29th August to 25th Septem- ber 1897.	Septem- ber to 30th Oct.	Total from 31st October to 27th Novem- ber 1897.	Week ending 4th Decem- ber 1897
1	2	3	4	5	6	7	8
CENTRAL PRO-	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Sehora Road Katni Jubbalpur Peparia Kareli Nagpur Other places	20,160 66,879 1,95,098 41,578 87,846 78,979 5,80,702	6,077 10,590 6,835 2,361 9,146 21,248 1,16,171	5,691 8,014 22,379 2,649 3,829 83,464 1,19,291	3,411 3,788 1,141 1,908 10,329	6,143 7,674 781 11,671	4,246 12,262 12,787	765 383
Total	10,20,742	1,72,428	1,95,317	65,109	66,484	29,295	1,148
RAJPUTANA AND CENTRAL INDIA.				0.0	100		
Dholpur Ajmere Sutna Mhow Ulwar Indore Jeypur Bawal Harphulpur	1,506 3,016 755	753 11,429 377 380	381 14,810 	2,640	0.33	1,523 760 551	
Other places	18,718	5,758	1,528	378	378		378
Total	1,45,639	18,697	17,099	4,542	1,526	2,834	378
Hyderabad BERAR.	1,156						
Badnera Dhamangaon Malkapur Khamgaon Akola Amraoti Shegaon	2,934 433 2,418 3,730 15,258	1,062 385 1,979	768 3,778	2,678	1,971	379 2,284 3,037 376	
Total	25,156	7,250	12,919	16,198	6,529	6,076	
Bombay	374		1,148	3		331	
Unspecified places	1,12,220	2,640	3,197	3,167	1,239	1,410	374
GRAND TOTAL	68,62,805	11,75,942	10,08,91	4,45,188	5,13,467	2,14,250	7,778
ABSTRACT. Total of Bengal "Bihar "Chota Nag	. 22,69,317		5,25,200	3,10,428	2,00,539	20,360 63,690 331	471 876
Total of Assam. Total of the North Western Pro-	347	1,006 1,69,550			302 1,56,174	62,994	4.970
vinces and Oudh. Total of the Panjal Total of Rajputan	4,13,321	14,509	33,538	30,385	24,219	27,230 2,834	4,270 761 378
and Central Indi Total of Centra Provinces.	a.		or the first and the second section			29,295	1,148
Total of Hyderabac Total of Berar	0 - 1 - 0		12,919	16,198	6,529	6,076	:::
Total of Bombay Total of Unspecifie	. 374		1,14	3		1,440	374
places. Add exports from 1s to 30th Januar 1897, the detail whereof are no available.	t y s						
GRAND TOTAL .	. 69,50,608	11,75,942	10,08,91	3 4,45,188	5,13,467	2,14,250	7,778

EXPORTS OF FOOD-GRAINS BY THE EASTERN BENGAL STATE RAILWAY.

No. 3407 Statistics.—The following statement shows the quantity of rice and other food-grains exported by the Eastern Bengal State Railway from Sealdah and Calcutta during the period from 1st January to 27th November 1897, both days inclusive, to have been 13,47,774 maunds. The destination of 13,43,492 maunds is specified. Of this quantity, 10,49,189 maunds were carried to stations in Bengal Proper, and 94,438 maunds to Bihar and Chota Nagpur, 45,911 maunds to the North-Western Provinces and Oudh, 1,46,021 maunds to Assam, and the rest (7,933 maunds) to other provinces.

STATISTICAL DEPARTMENT,

The 14th December 1897.

M. FINUCANE,

Secretary to the Gort. of Bengal,

Statement showing the quantities of rice and other food-grains exported from Scaldah and Calcutta (Port Trust Railway, Chitpur and Kidderpore Docks), by the Eastern Bengal State Railway, from 1st January to 27th November 1897.

STATION TO WH.	юн	Total from 1st January to 26th June 1897.	Total from 27th June to 31st July 1897.	Total from 1st to 28th August 1897.	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 30th October 1897.	Week ending 6th Novem- ber 1897.	Week endirg 13th Novem- ber 1897.	Week ending 20th Novem- ber 1897.	Week ending 27th Novem- ber 1897
1		2	3	4	5	6	7	8	9	10
BENGAL 24-Pargana		Mds	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Barrackpore	•••	1,071	374	•••		•••	.,,,	•••		•••
Shamnagar	•••	200	•••	•••	••••	1	• • • •	•••	•••	•••
Kankinara Naihati	•••	$\frac{302}{149}$	182	•••	20	1	***	.,,	•••	•••
Kanchrapara	•••	34	24	4	20		•••	•••	•••	
Duttapukur		84	~		~	16		•••		54
Gobardanga		1,191	359	190	252	613		141		75
Akra Junction		9			2					***
Muslandpur	•••	9	4	6	•••	9	•••			•••
Mugra Hât	•••	4		•••			•••			•••
Guma	•••	60	•••	•••	•••	***	•••	•••	•••	•••
Budge-Budge Dogachhia	•••	8 8		•••		***	•••	•••	•••	•••
Habra			***	12				•••		
Baruipur		•••		* ***	5					
Total		2,934	943	212	279	639		141		129
Nadia.		97		142		4	18			
Ranaghat		785	131	81	6	249	5	•••	100	
Aranghata	•••	45	2		•••		•••		•••	•••
Bagula		17,323	3,058	4.	17		•••	4	••• #	*
Kishanganj	•••	3,781	1,711	971	302		•••	•••		•••
Banpur	•••	608 2,874	148 729	126 5 68	109	6 9		•••	***	**
Ramnagar Jairampur	•••	2,325	1,072	560	168			2 8		Me
Chuadanga	•••	17,306	5,264	1,117	200	165	30	4	31	100
Munshiganj	•••	6,447	1,509	69	9	12	•••			
Alamdanga	•••	35,668	11,839	2,523	18	50	•••	8	11	2
Halsa	•••	2,339	483		503	193	11		•••	
Poradaha	•••	2,340	245 905	$\begin{array}{c} 15_* \\ 21 \end{array}$			•••	2		
Jagati Kushtia		2,853 $47,273$	19,967	1,582	3,368	1,198	120	312	385	276
Kumarkhali		20,440	18,740	774	2,504	2,496	25		20	54
Koksa		6,567	3,583	637	234	643	***	26		
Mirpur		20,759	2,549	148	15	61		•••		
Bhairamara	•••	29,622	2,962	14		168	•••		•••	
Damukdia	•••	7,107	13,189 20	3,425 61	908	247	6	***	76	•••
Gangnapur		9	88		28		21 6	30	4	•••
Madanpur Sibnibash				***		39		•••	48	•••
Total		2,26,600	88,192	12,838	8,402	5.540	257	396	577	334
Jessore.	•••				-, 202	10000			011	
Chandpara		150	18	15			`			
Bangaon		1,667	213	268	358	554	21	30	36	54
Gopalnagar	•••	521	69	129	240	235	2		44	12
Benapol	•••	296 634	268 227	69 129	26 40	44 36	•••	4 19		32
Nabharan	•••	7,048	1,685	1,004	312	502	36	19	86	36
Jhikargacha Jessore	1.	6,649	3,482	1,017	418	254	60	42	67	138
Rupdia		58	59	3	8		1	4		
Singia		16,316	7,275	40	55	76	277	32	5	98
Naral	***	258			•••	• • •	•••			•••
Binodpur	•••	1,056	110		•••	4	•••	•••		1
Nohatta Other places		328 2,529	77 250	2	4	10	•••	4		
Total	(37,510	13,733	2,676	1,461	1,715	397	154	239	370
The second secon	O-100 A 2 To 100 P	1 3 7 MIN	1 12 723	2 PV / PV		/ 10	200	1 13/1	7.25.76	10 7 11

STATION TO WHICE CONSIGNED.	S4200 700 9 1	Total from 1st January to 26th June 1897.	Total from 27th June to 31st July 1897.	to 28th August	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 30th October 1897.	Week ending 6th Novem- ber 1897	Week ending 13th Novem- ber 1897.	Week ending 20th Novem- ber 1897.	Weel ending 27th Novem ber 1897.
* 1		2	3	4	5	6	7	8	9	10
BENGAL-con	td.								*	
Khulna.		Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Fakir Hât Nawapara Phultala Daulatpur Khulna Bagir Hât Bhatpara	:::	1,535 346 148 3,526 15 8	876 119 20 5,343 18	20 51 180 30 419	10 26 75 485	6 118 44 22 125	29	10	6 20	24
Total		5,578	6,376	700	546	315	29	10	26	24
Rujshahi.		1,503	2,126		542	370			***	
Gopalpur Nator Attrai Raninagar Alipur Rampur Boalia Sara Charghat		73 498 37 108 14,912 1,348 493	260 1,873 982 304 3,108 3,594 301 448	1,294 4,434 185 1,862 4	2,363 1,380 40 	931 2,055 170 141	10		2 4 4	88
Madhanagar Total		18,972	12,996	7,879	4,328	3,667	10		6	151
Dinajpur.										
Parbatipur Kaugaon Charkai Phulbari Raiganj Dinajpur Kaliaganj		 192 82 1 1,007	358 883 24 232 3,778 140	400 32 97 2,737	124	68 20 772	2	88	20 2	22
Total		1,288	5,415	3,266	124	860	2	88	22	25
Jalpaiguri. Belakoba Dam-Dim Chilahati Haldibari Jalpaiguri Ramshai Hât Chalsa Road Ghá Malbazar Deomoni		171 70 24,726 25,961 9,716 1,220 1,981	300 7,041 13,032 5		14,029 5,580 378 1,401	18,08) 4,814 40 240 220	1 148 4 5 6		36	100
Mandal Ghât		-			230					10
Total Darjeeling Siliguri Kurseong Sonada Ghum Darjeeling Mahanadi Tindaria		5.857 4,097 1,056 4,466 3,186	887 14 3 5 1,17 <i>t</i>	41	1,646 3 415 410 8 65 4 555	1,22° 2 1,04 1 1,64 2 1,68	7 21 5 0 15 7 0 2	0 9	1 14 	 3
Rangtang		. 18,659	3,469	2 1,83	3,77			_	15	3

Station to whit consigned.		Total from 1st January to 26th June 1897.	Total from 27th June to 31st July 1897.	to 28th ·	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 30th October 1897.	Week ending 6th Novem- ber 1897.	Week ending 13th Novem- ber 1897.	Week ending 20th Novem- ber 1897.	Week ending 27th Novem- ber 1897.
1		2	- 3	4	5	6	7	8	9	10
BENGAL-con	td.		263	37.1	Mds.	351	363		3/1	Mds.
Rangpur. Daroani		Mds.	Mds. 237	Mds. 305	100	Mds.	Mds.	Mds.	Mds.	mas.
Rangpur	***	1,337	1,458	634	803	739	85	70	81	111
Kaunia		234		12	277	54	20			32
Badarganj		24	0.979	38 1,450	20 658	$\begin{array}{c} 18 \\ 633 \end{array}$	•••	52	41	49
Saidpur		1,495 236	2,373 505	868	€63	745	14	126	*	
Nilphamari Domar		8,097	5,191	1,359	7,691	15,197	1,536	103		20
lista .		392	•••	· · · ·						•••
Lalmonir Hât		453		6						m •••
Magal Hât		200 964	55	$\frac{356}{127}$	56 449	$\frac{62}{112}$	2	8	90	•••
Kurigram		426	34	26	130	69				
atrapur Porabari	***	680	29	81	520	193		4		***
Madarganj		4		20	91	2,595	***			22
Kamarjani	•••	1,388	36	35	242	128	64	•••		20
Chilmari		248 133	70	$\frac{20}{21}$	85 26	$\frac{42}{90}$	34	***	75	
Rowmari Shampur		100			5		***			•••
			-	-						054
Total		16,411	9,988	5,358	11,816	20,677	1,755	363	290	254
Bogra.			100	150	200					
Panchbibi Taipur Hât	•••	16	1,493	583	994	1,871			14	4
Tamerbari	•••	1,859	229	416	882	823	8	140	*	•••
Sultaupur	•••	170	953	4,148	2,769	5,375	20	294	30	
Akkelpur	•••	390	1,117	1,665 335	501 213	1,810 204	16	20	6	11
Bil.	•••	105 507	1,274	722	120	430	671	1		8580
Jamalganj Filakpur			108				***	•••	40	
Nakhila	• • • •	***			37	90	• • • • • • • • • • • • • • • • • • • •	20		F10.
Total		3,047	6,261	8,019	5,716	10,603	715	514	50	2
Pabna. Nagarbari		1,263	201	300	801	170				
Banagram	•••	85			***				***	Y
Belkuchi	•••	3,996		192		1,024 934	10		149	M111
Serajganj	•••	11,476	1	3,771	10,840	304				****
Pabna Sthalchar				5	8	38			***	
Bera				12	18			1		
Total		16,824	3,832	4,280	13,886	2,166	56	46		
Cooch Behar Chaurh Hât	٠	1,476				167			•••	with the
Torsa		28,106		360	183	601	101		10	
Other places		917			4.00					-
Total Dacca.		30,499		360	183	768	101	78	10	1
Dorogram				- 1	17	* 1	•••			
Elashin	•••	6	9	16	218	541				91
Narayanganj	•••	1,436				140 180		62	20 30	31
Dacca Kadirpur	***	533						1		
Tarpasa		815	29		302					
Kamalaghat		13	38			***	***			
Bahar	***	18			387	1		***		
Moynal Postagola	•••	19 518		The second second		1 1				
Postagola Maniknagar		010		***	2	2				
Aricha			12			31	900			la distribution
Sabhar					296		- Carrier 13		• •••	
Elachipur Bishnandi					20					
Control of the second s		-			-	-	-		-	-
Total		3,36	291	999	6,392	1,087	320	63	50	38

STATION TO WHITE CONSIGNED.	ОН	Total from 1st January to 26th June 1897.	Total from 27th June to 31st July 1897.	Total from 1st to 28th August 1897.	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 30th October 1897.	Week ending 6th Novem- ber 1897.	Week ending 13th Novem- ber 1897	Week ending 20th Novem- ber 1897.	Week ending 27th Novem ber 1897.
1		2	3	4	5	6	7	8	9	10
BENGAL-con Mymensingh.	td.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	15
Gafargaon		16	***				•••	mus.		Mds.
Mymensingh	***	651	14	144	243	354		20		
Bhairab Bazar Bahadurabad		41 254	20		76 94	204	52	59 20		•••
Hargilachar		336	121	22	32	40			***	***
Jagannathganj		1,186	25	63	165	924	, 2	46		***
Subarnakhali	•••	2,559	264	102	171	73		***	80	
Sadhuganj	•••				2		***			
Total		5,043	444	331	783	1,636	54	145	30	
Faridpur. Doomasa					127	126				
Daulatdia		11,346								***
Lallgolla		4,469	2,730	1,275	6,776	4,413	60	44	301	9
Pangsa	•••	34,805	12,914	984	1,829	589	7 6	41		8
Belgachi Rajbari	•••	8,279 13,341	300 1,124	103 495	424 327	118	6	1		
Pachuria	:::	19,465	8,746	6,355	5,531	868				•••
Goalundo		19,895	4,304	2,818	6,353	3,338	600	100		6
Faridpur	•••	21	•••	2	19	26				
Madaripur	•••	6 4			20	•••	***			
Haserkandi Nuria	***	4	30	456	856	130				***
Kartikpur		61		14	558	43	***	2		
Jobsa					86	3				***
Total Backergunge.		1,11,692	30,148	12,502	22,911	10,060	673	187	301	243
Pirozpur			5			4				
Jhalakati		920		1,232	2,147	20				
Barisal		249		40	20	20	20	40		***
Total		1,169	5	1,272	2,167	44	20	40		
Tippera.			-		1	2		1		
Azabpur Haziganj	***	20	:::		120	20				
Comilla		130			132					47
Chandpur		8	1	240	203	97)**	4		
Akhaura	•••	7	8	18	9 9	6				
Nayanpur Brahmanbaria					3	1				
Total		165	9	258	477	125		4		47
Noakhah.					-	-			20	
Noakhali Feni		471		:::	3				+	
Total		471		*	4	- S			20	
Chittagong.		54	284	345	618	226	42	60	168	301
Burdwan.				412		-	-			
Sitarampur Rasulpur	***	3		412						
Raniganj		428								
Total		431		412						
Birbhum. Bolpur		5	-	100 4 day 2000 and 100	N. L.			100		
Sainthia	•••	2								
Total		7								
				***					1	

Station to which consigned.	Total from 1st January to 26th June 1897.	Total from 27th June to 31st July 1897.	Total from 1st to 28th August 1897.	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 30th October 1897.	Week ending 6th Novem- ber 1897.	Week ending 13th Novem- ber 1897.	Week ending 20th Novem- ber 1897.	Week ending 27th Novem- ber 1897.
1	2	3	4	5	6	7	8	9	10
BENGAL-concld.				*					
26	Mds.	Mds.	Mds.	Mds.	Mds.	Mds	Mds.	Mds.	Mds.
Murshidabad. Azimganj	312	375							
Jiaganj	20								1.48
Total	332	375				•••			
Total of Bengal	5,66,344	2,03,967	70,166	1,06,550	91,417	5,059	2,766	1,839	2,375
CHOTA NAGPUR. Hazaribagh. Giridih	390	740		•••		***			
Manbhum.									>-
Parulia	937	740	927	360					•••
Chandil	10	***				•••			•••
Katrasgarh Pradhan Khanta	16		740						
Total	963	740	1,667	360		•••			#
			1,007			***			
Singhbhum. Chakradharpur	20	•••		***					•••
Total of Chota Nagpur	1,373	1,480	1,667	360				105	
BIHAR.		***************************************		7					2.7
Sonthal Parganas.								3-4	
Deoghur	370		***	•••				4	
Pakur Rajmahal	6	794			***				
Total	376	794				***			
Bhagalpur.	384								1 244
Colgong Bhagalpur	370	4,100			***				
Total	754	4,100				-	-10		400
						economic continuous con			•••
Monghyr.	050		270						
Monghyr Barowni	10	••••	370		***	***			•••
Khagaria	742	370	376		***		***		***
Burhi		1,496	1,516				***		
Kajra	161	1,876	375		•••	***			
Jamalpur	1 1 1 1 1 1 1 1 1 1	370 751	751	•••					
Garhara			-		-	***	***		
Total	1,283	4,863	3,388		***			***	•••
Patna.						1			
Barh	1.050	753			970	***	***		
Patna Diga Ghat	7/10		2,828						
Dalahtian	977		382		•••	***	***	•••	
Malanah	745		2,627		***	***	***	***	***
Khusrupur		2,655	375			***			
Bankipur		375	751		370				1.00
Dinapur		371						***	
Bihta			***	370	***	***	***		
Total	2,912	18,075	8,091	1,850	740			·	·
Lotal					1 -011				

STATION TO WHICH CONSIGNED.	Total from 1st January to 26th June 1897.	Total from 27th June to 31st July 1897.	Total from 1st to 28th August 1897.	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 30th October 1897.	Week ending 6th Novem- ber 1897.	Week ending 13th Novem- ber 1897.	Week ending 20th Novem- ber 1897.	Week ending 27th Novem- ber 1897.
1	2	3	4	5	6	7	*8	9	10
BIHAR-concld.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Purnea. Barsoi			370					***	***
Sonali	720	1,466					10	•••	***
Kishanganj Kasba	1	1,400	200						72.00
Total	721	1,466	570				10		
Darbhanga.	895	2 004	1,499		-				
Samastipur	370	3,004	1,499			***			***
Dalsingh Sarai		3,755	2,632						
Total	1,265	6,759	4,131					***	
Shahabad. Buxar				1,852	• • •	•••			
Arrah		1,120	385						
Raghunathpur	370		370		1 :::		***		1.3
Behea Dumraon				370					***
Total	370	1,120	755	2,222					
Gaya	370		11						
Muzaffarpur.				-		-	-		
Hajipur	740								
Sitamarhi Muzaffarpur	2,628	2,281	380						
Bhagwanpur		375						-**	***
Garaul		376	375						
Total	3,738	3,032	755						
Bettiah	370								
Ekma	740							*	
Revelganj	1,870	1,857 380	870				***	:::	""
Chapra	1,537 2,960	1,480	740	***	- :::	:::		1	
Daronda	370	1,505		1			•••		
Digwara		758	***		***		•••	***	
Total	7,477	5,980	1,110						
Total of Bihar	19,636	46,189	18,811	4,172	740		10		
NORTH-WES- TERN PROVIN- CES AND OUDH. Ghazipur.			Linguis I			V sales of the sal		*	
Dildarnagar		1,121	***		***				
Ghazipur	Andrew Comment	370						1	
Tarighat		010	•••					-	
Total Benares.		1,491							137
Benares Zamania			***		1,115				
Total	370				1,115				
Gorakhpur. Gauri Bazar	370	1	T			1.0.0			
Chauri Chaura	070				•••		177		bee.
Garakhpur			740		***	***			
Total	740		740					•••	•••
Marine Control	1	***	1.10	"				1	

STATION TO WHICH CONSIGNED.	Total from 1st January to 26th June 1897.	Total from 27th June to 31st July 1897.	Total from 1st to 28th August 1897.	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 30th October 1897.	Week ending 6th Novem- ber 1897.	Week ending 13th Novem- ber 1897.	Week ending 20th Novem- ber 1897.	Week ending 27th Novem- ber 1897.	
1	2	3	4	5	6	7	8	9	10	
NORTH-WES- TERN PROVIN- CES AND OUDH-contd,	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	
Mirzapur. Mirzapur	385	***	•••					•••		
Allahabad. Naini Junction Mija Road Allahabad	370 385 4,000	 Z. :			***			=	***	
Total	4,755									
Fattehpur. Bindki	385									
Cawnpur.	7,965				381					
Etawah	2,383									
Mainpuri. Shakohabad	375								100	
Agra. Firozabad	767			-					1 4	
Muttra.	379									
Alighur. Hattrass Alighur	OTE	1,144	879				:::		:::	-
Total	4,207	1,144	379							
Meerut.	758		384				ļ		···	
Moradabad. Moradabad	385		.,,							
Bareilly.	4	ļ	l							
Aonla Bareilly	379			81		1		96		
Total	1,526			81		·				
Jaunpur Jalalganj	8 6						:::	12.		
Total	14	3			-	-	-	-		-
Shahjehanpur. Shahjehanpur Tilhar	1,899				===	=	-:			
Anjhoe	0.410	-								

STATION TO WHICH CONSIGNED.	Total from 1st January to 26th June 1897.	Total from 27th June to 31st July 1897.	Total from 1st to 28th August 1897.	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 30th October 1897.	Week ending 6th Novem- ber 1897.	Week ending 20th Novem- ber 1897	Week ending 20 h Novem- ber 1897.	Weel endin 27th Novem ber 1897
1	2	3	4	5	6	7	8	9	10
NORTH-WES- TERN PROVIN- CES AND OUDII-concld. Lucknow.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds
Lucknow	1,901 3,401		::		:::		:::	(1)	
Total	5,302	374							
Bulandshahar. Khurja	750				-				70
Fyzabad. Fyzabad Gosainganj	90								
Total	1,20	0			-			-	
AACO MINA	37				:::				
Total .	1,12	1							-
Other places	2,25	5	37	0					_
Total of the North Western Provinces.	h- 39,44	9 3,015	1,87	3 8	1,49	6			-
	. 1,51	6	37	0 1,11	0 1,11	0			- "
Central Provinces	45	6	1	2,98	6				
Rajputana and Cent India ASSAM.	ral 38	4							-
Eylhet. Fenchugunge Sylhet Badarpur Balaganj Karimganj Chattak		94 5 37 10 52 36 00	9	2 37 42	5 14	6 1,08	2	40	,
	14,46	$\frac{36}{33}$ $\frac{1,07}{2,09}$			_			40)
Cachar.	13,84			31 1,34	8 4,22	20 34	9 5		
	13,84	17 5,92		1,34		20 34	9 14	9 40).
Goalpara. Dhubri Hoalpara	1,20	08 12 10 31	1 38	30 68 36 2,38	2 46	34	8 16 13		3
	2,84	18 43	69	06 3,01	6 2,48	_	38 29	0 148	3

					四月间 的复数外外	***	*	C TOTAL	
STATION TO WHICH	Total from 1st franuary to 26th June 1897.	June to 31st	to 28th	Total from 29th August to 25th Septem- ber 1897.	Total from 26th Septem- ber to 3 th October 1°97.	Week ending 6th Novem- ber 1897	Week ending 13th Novem ber 1897	Week ending 20th Novem- ber 1897.	Week ending 27th Novem- ber 1897.
1	2	3	4	5	6	7	8	9 .	10
ASSAM—coreld.	la santa di								161
Kamrup.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
Gauhati	673	3,258	2,876	13,257	6,713	2,913	2,966	1,923	1,014
Darrang. Tejpur Mangaldai Bishunath	257 18 51	111 160	152	411 1	259 56	3	4	2	60
Behalimukh	•			410		p			···
Total	326	271	152	822	315	3	4		GO
Sibsagar. Nigriting Disangmukh Dekhumukh Kokilamukh Other places	1,826 1,676 3,886 557 1,576	437 609 372 701	190 697 103	13 357 565 84	129 223 630 286 142	40 20 82 60	20 93 97 2	72 25 130 	63 16 197 20 8
Total	9,621	2,119	1,000	1,009	1,410	202	212	227	301
Lakhimpur. Dibrugarh Palasbari	14,366	875 20	1,887	4,(20	3,966	1,650	1,500	1,820	1,203
Total	14,368	895	1,887	4,123	5,972	1,650	1,500	1,820	1,203
Nowgong.	558			61	507			***************************************	1
Other places	115	26	400		112	24			
Total of Assam	56,819	15,021	7,601	24,432	20,656	6,311	5,121	4,198	4,568
Unspecified places	3,843	115	16	143	160		5-5-		
GRAND TOTAL	6,89,820	2,69,785	1,00,504	1,39,834	1,15,579	11,370	7,902	6,637	6,94
ABSTRACT.									
Total of Bengal Ditto Bihar Ditto Chota Nag-	19,636	2,03,931 46,189 1,480	70,166 18,811 1,667	4,172	740		2,766 10		2,37
Ditto North-Wes- tern Pro-		3,012	1,373	81	1,496		-	•	
Oudh. Ditto Panjab Ditto Central Provinces.	1,516 456	1	870	1,110 2,986	1,110		:::		
Ditto Rajputana and Centra India.			7.601		20.650		5.101	4.109	4.569
Assam Unspecified places		15,057		24,432			5,121		4,568
GRAND TOTAL	3,89,820	2,69,785	1,00,504	1,39,834	1,15,57	11,370	7,902	6,037	6,948

COMPARATIVE STATEMENT OF THE PRICES OF FOOD-GRAINS.

RETAIL prices of common rice and other food-grains in the several districts of Bengal and in the neighbouring districts of the North-Western Provinces during the first and second fortnights of October and November 1897, as compared with the corresponding fortnights of October and November 1896, are published for general information. The latest available prices of common rice in Cachar and Sylhet are also published.

M. FINUCANE,

Secy. to the Govt. of Bengal.

REVENUE DEPARTMENT, the 14th December 1897.

Quantity obtainable for a rupee.

D		189	7.			18	96.	
DISTRICTS.	15th October.	31st October.	15th November.	30th November.	15th October.	31st October.	15th November.	Nov
1	2 3		4	6	6	7	8	
Muon Rick— Burdwan	8. он. 9 12	S. сн. 9 12	S. сн. 10 0	8. cm.	S cm	S. сн. 9 12	S. cn. 9 12	8
Birbhum Bankura	9 6 12 8	9 12 13 8	11 0 15 12	11 4 to 13 8 15 0	} 11 4 13 0	9 0 11 0	9 12 12 0	1
Midnapore Hooghly Howrah	9 4 (old.) 11 8 (new aus.) 8 2 8 4	9 6 (old) 11 0 (new aus.) 8 2 8 0	9 10 (old.) 11 4 (new aus.) 8 2 8 0	12 8 8 8 9 0	11 0 10 6 12 0	9 8 8 3 10 0	10 0 8 8 9 2	1
24-Parganas	8 2	8 8	8 8	9 0"	11 0	9 0	9 0	
Calcutta Nadia Murshidabad Jessore Khulna	7 4 9 1 5 9 0 (old.) 11 0 (new aus.) 11 0	8 0 10 0 10 0 (old.) 12 0 (new ans.) 13 0 10 0	8 0 9 12 10 0 (old.) 12 0 (new aus.) 12 0	8 0 10 0 13 0 12 0 13 0	8 14 11 0 11 0 11 0 9 14	8 6 8 5 9 8 9 2 9 0	8 6 8 14 10 0 9 2 8 10	* 10 10 9
Rajshahi	{ 7 8 (old.) 9 0 (new aus.)	9 0 (old.) 11 4 (new aus.)	10 2 (old.) 11 4 (new aus.)	12 6(new aman.) 9 0(old.)	3 9 8	7 8	9 6	{ 11
Dinajpur Jalpaiguri Darjecling Rangpur Bogra Pabna Dacca Mymensingh Faridpur Backergunge Tippera Noakhali Chittagong Faina Gaya Shahabad Saran Champaran Muzaffarpur Darbhanga	{ 8 6 (old) 9 9 (new aus.) 8 0 8 8 6 0 7 2 (old.) 8 10 (new aus.) 8 io 10 8 10 0 7 0 (old.) 9 12 (new aus.) 6 10 10 8 (aus). 10 9 11 0 8 0 9 0 9 8 11 0 12 8 9 0 12 0 12 0	8 6½ (oid.) 10 3 (new aus.) 8 8 8 0 6 4 8 10 (oid.) 9 12 (new aus.) 11 4 11 0 7 0 11 0 9 0 (oid.) 10 8 (new aus.) 7 4 11 8 9 4 11 0 8 0 9 0 & 10 0 11 4 12 8 9 8 12 0	9 0 (old) 12 0 (new aus.) 9 0 7 0 7 8 (old.) 9 0 (new aus.) 10 8 12 0 10 8 12 0 10 8 11 8 9 8 10 0 8 12 12 13 8 10 0 12 0	9 9½ (old.) 12 0 (new.) 10 0 9 0 7 0 {12 0 10 8 12 8 10 0 11 4 9 8 (old sman.) 12 0 (new sman.) 12 8 14 0 12 0 15 0 (new.) 12 8 13 0 14 0 14 8 15 0 (new.) 14 0	8 0 11 0 9 8 10 12 9 0 9 0 & 10 0 10 0 11 4 9 0	9 9.3t. 9 0 8 0 8 0 9 0 9 12 9 0 8 8 8 4 7 3 9 8 9 8 9 9 8 4 8 0 8 4 8 1 8 2 8 4 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9	9 14-2t. 9 0 8 0 9 0 9 13 9 8 9 0 8 0 8 0 8 0 8 0 9 0 10 0 8 8 9 8 9 0 9 0 10 0 8 7 8 9 10 0 8 8 9 0 8 8 9 0 8 9 0 8 0 8 0 8 0 8 0 8 0 8 0 8 0 8	((new 9.1
Monghyr Bhagalpur	8 118	8 10g 8 14	9 71	10 121 11 6	9 4	9 6	10 2 10 0	1
Purnea Maida Sonthal Parganas.	11 11 8 8 9 0	11 11 10 9 9 0	17 0 11 8 12 4	17 0 11 0 13 8	10 0	10 0 8 8 9 4	11 0 10 8	
Cuttack Balasore	13 13 12 8 10	12 8	12 8	13 2	16 0	11 13	11 0	
Pari Hazaribagh	10 8	(11 13 old) (14 7 (new.) 10 0 (10 0	10 8 (old.) 14 7 (new.) 12 4	11 13 (old.) 15 12 (new.) 12 8	} 16 0 9 0 9 0	11 13 8 12 8 0	13 2 9 0 9 0 to	}
Loharjaga Palamau Manbhum Singhohum		to (14 0 12 6 11 8 14 0	10 0 (old.) 15 0 (new.) 12 13 15 8 14 0	9 0 (old.) 14 0 (new.) 14 10 14 8 16 0	to 11 0 9 0 11 8 14 0	10 0 8 7 12 0 10 0	10 0 8 11 12 0 (new 12 0	

				189	7.		1896.					
DISTRIC	18.		15th October.	31st October.	15th November.	30th November.	15th October.	31st October.	15th November	30th November		
1	137.99		2	3	0 4	5	6	, a 1	8	9 *		
			S. сн.	S. сн.	8. сн.	8. сн.	S. сн.	S. сн.	S. CB	8. сн.		
Patna			10 0	10 0	10 0	12 0	8 12 and 9 0	8 4	9 0	9 12		
Gaya			8 12	8 8 9 0	8 12 9 8	9 4	8 8 8 0	8 0 8 0	8 4 8 8	8 4 8 8		
Shahabad			and 10 0	and 9 8	9 12	10 0	8 8 8 8	and 8 8 8 8	9 0 8 8	and 9 0 8 8		
Saran			9 8	9 8	10 0	10 8		9 0	9 0	9 0		
Champaran			8 8	8 0	8 8	8 8	8 12 9 0	8 0	8 0	8 8		
Muzaffarpur			9 0	8 8	9 0	40	8 0	8 0	8 0	8 0		
Darbhanga			8 0	8 "	8 0	8 8 10 111	9 0	8 4	8 12	8 8		
Monghyr			9 71	8 144	9 153		8 12	8 8	9 0	8 14		
Bhagalpur			9 8	9 8	10 2		9 0	8 0	10 0	9 (
Purnea			8 0	9 9	9 9	10 0	0	1 00	1.0			
DIAN-CORN OR M.	AIZE-		15 8	15 8	19 8	22 0	15 0	12 0	13 0	13		
Patna			77.33	1000	17 13	19 0	12 8	11 2	11 2	11		
Gaya			14 0	13 8 13 8)	(18 0	177	11 0 and	} 12 0	12		
Shahabad		•••	13 8	and 14 0	16 0	18 8	14 0	(11 8	12 8	12		
Saran			15 0	15 0 17 0	16 4	19 0	14 8 16 0	12 0 14 4	12 0	12		
Champaran		***	18 0		16 0	21 0	15 8	13 0	12 0	12		
Muzaffarpur	***	***	17 0		18 0	20 0	15 0	11 8	12 0	11 1		
Darbhanga	***		15 0	M				13 0	13 4	12 1		
Monghyr		***	15 12	14 11 5	20 0	21 8	14 6	12 10	13 0	13		
Bhagalpur			15 2	15 2			16 0		13 0	16		
Purnea	£	***	10 4	10. 0	21 4			13 8	14 0	14		
Sonthal Parga			15 0	18 0	19 0	19 0		11 0	11 0	ii		
Hazaribagh			15 0	13 12	15 0	15 0		11 0		10		
Lohardaga			12 0	12 0	14 0	15 0	16 0		11 13	ii		
Palamau			18 9	16 14	16 14		13 8		100000	12		
Manbhum		•••	14 0	16 0	17 0	16 0	16 0	14 0	******	1 -		
2.1				Nonen	Wygnenw	Provinces.	1.55					
				NORTH	- WESTERN	I ROVINCES.				1		
COMMON RICE-						8 8	7 12	7 (6 10	8		
Jaunpur*			. 9 0	8 8	9 0					9		
Gorakpur	•••		9 14	11 4								
Mirzapur			. 8 4	7 15	and the second second					9		
Benares	***		. 10 0	10 0	10 0					8		
Ghazipur	***		9 12	9 4						8		
Ballia			. 8 8	7 8	8 8	3 11 4	10 0					
VHBAT-			9 0	9 8	9 8	9 12	7 12	7 1	7 10	7		
Jaunpur	•••			8 9					7 3	7		
Gorakpur			8 2	8 4		8 10						
Mirzapur	***		8 5			10 0	1	3 7 1		7		
Benares	•••		9 14		10			2	8	6		
Ghazipur	***		. 9 4					_	8 8 4	8		
Ballia			. 8 12	9 4	10	8 11 (0 0		0 2	1		

Burma rice 9 seers 8 chitaks.

ASSAM

Prices of common rice for the week ending 25th November 1897:-

	Week of report.	Preceding week	Corresponding week
	S. ch.	8. сп.	S. cn.
CACHAR— Janiganj Bazar Hailakandi	11 61	11 6½ 10 0	7 111
Kazi Bazar Chhatek Bazar Sunamganj Habiganj Karimganj Maulyi Bazar	13 2 14 0 11 0 12 0 12 10 12 8	13 2 12 0 8 0 12 0 11 5 12 0	10 0 10 0 9 0 9 0 8 0 10 0